Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

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141	Electronic Engineering
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143	Mechanical and Manufacturing Engineering
144	Engineering with Management

Science and Mathematics

146	Science (common entry), with specialisations in:
148	Biochemistry
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151	Functional Biology
152	Genetics
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Why Choose Trinity?

International Reputation

- Trinity has a longstanding reputation for excellence in teaching and research. We are Ireland's top ranked university, and the only Irish university in the world's top 100 universities (QS World University Rankings 2014/15).
- Trinity is Ireland's most international university, ranked 30th in the world by the Times Higher Education '100 Most International Universities in the World 2014'.

Trinity Education

- Trinity offers an exceptional educational experience centred on a research-inspired curriculum, where every student has the opportunity to complete an individual research project during their studies. Our degree programmes enable you to cover a broad range of core modules in the first two years, and many of them allow you to focus in-depth on the areas that interest you most in the final two years.
- Many of our courses provide opportunities to study at leading universities worldwide.
- Trinity backs entrepreneurial students through programmes such as LaunchBox, supporting them to start new businesses and social enterprises.

Student Satisfaction

In the Universum Student Survey 2014:

- When students were asked if they would choose the same Irish university again, Trinity scored highest of all universities.
- 85% of Trinity students recommended Trinity.

Employability

- Trinity is the only Irish university to feature in the Global Employability University rankings.
- 93% of our graduates from 2013 are either in employment or further study.

Location

- Trinity is situated in the heart of Dublin's city centre, at the centre of the country's transport hub, on a beautiful campus which contains a wonderful mix of modern and historic facilities (including the country's largest research library). New developments include the Business and Innovation Hub, which is scheduled for completion in 2017.

Diversity of Students

- Our international students represent over 100 different nationalities. Our students also come from every county in Ireland (with over 45% of Irish students from outside Dublin) and all socio-economic backgrounds.

Student Supports

- Supports include a personal tutor for each student, a wide range of learning supports to aid your transition from second to third-level, student mentors and an excellent Careers Advisory Service to help you find employment.

Student Life

- Trinity offers students an unparalleled experience. There are 120 societies and 48 sports clubs waiting for you to join them in Front Square during Freshers' Week, along with course specific social events for you to get to know your new classmates, not to mention the legendary Trinity Ball.

Alumni

- 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 and entrepreneurs.
- Our Alumni Career Network provides support long after you have left Trinity – allowing graduates to connect directly with other alumni around the world, to benefit from their experience and receive career advice.

Listen to what our staff, students and alumni have to say at:
www.youtube.com/watch?v=J8evbCLVepg and
www.tcd.ie/explore

Trinity College Dublin, the University of Dublin is a university with a global reputation, committed to the highest excellence in all academic endeavours. Our inspiring professors are dedicated teachers in their fields, and global leaders in research and scholarship. The 'Trinity Experience' is a chance in a lifetime for personal development in the broadest sense. Trinity has many diverse societies and clubs, which contribute much to the life and fabric of the university and community.

As a student you feel a great sense of history, of walking in the footsteps of famous graduates, many of whom are helping shape the history of Ireland and the wider world. I hope you will consider joining us to study here and look forward to welcoming you to Trinity for an exciting new journey that will open your mind to new experiences, ways of thinking and friendships, many of which will last a lifetime.

Dr Patrick Prendergast, *Provost*

1st

Ranked as Ireland's leading university

(QS World University Rankings 2014/15)

Place in Ireland in the 2014 Global Employability University Ranking

Number of subject areas in which Trinity is ranked in the top 100 universities in the world

(QS World University Rankings by Subject 2015)

16

% international students

% of graduates classified as Director, VP, Owner or Partner

Size in acres of Trinity's main campus **47**

39% international academic staff

58

% female students

World ranking

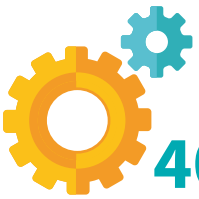
(QS World University Rankings 2014/15)

93

% of 2013 graduates in employment or further study

168

Sports clubs and Student societies



400

Industry partners

1592

Year in which Trinity was founded

Philosophical Society founded (world's oldest debating society)

17,000

Students in Trinity

103,518

Trinity alumni (graduates) around the world

6,000,000

Number of printed books in Trinity's libraries

Trinity: A University for all Students

Trinity is a university for students from all countries, backgrounds and counties in Ireland. We believe that a diverse student population adds to students' Trinity Experience, enhances their personal development and enriches the culture of the University.

- Our current students come from over 100 countries around the world and from every county in Ireland.
- 16% of students are international students, providing a true global community on Trinity's campus.
- 45% of our students from the island of Ireland are from outside Dublin, and we aim to increase this proportion.
- 20% of students gain admission to Trinity via the access pathways for socio-economically disadvantaged students, students with a disability and mature students. We aim to increase this proportion to 25% by 2019.

  The Trinity Access Programmes (TAP) provide a range of post-entry supports for students entering the University through these routes.
- Trinity is currently running a feasibility study in admissions, on behalf of the entire third-level sector, to test if there is a better and a fairer mechanism for admitting students to third-level in Ireland – rather than just considering CAO points.

If you are looking for an interesting and stimulating course at a world-class university, then we hope that you will apply to Trinity.

We are an inclusive university and a warm Trinity welcome awaits all of our students. So don't be concerned if you live far away, if your friends are considering other options, or if you are wondering if you will fit in at Trinity. By the time that you have joined some of our clubs and societies during Freshers' Week, made friends on your course through your class rep, met your personal tutor and student mentor, and participated in our Students' Union's entertainment programme, any concerns will be long forgotten.

Trinity's Location

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

Dublin has a well-deserved reputation as one of Europe's most vibrant cities for entertainment and culture, and Trinity students make great use of the many cafés, restaurants, public parks, cinemas, theatres, music venues, bars and clubs on our doorstep.

Trinity's central location makes it highly accessible for all forms of public transport: Trinity will soon have its own LUAS (tram) station and there is a DART (Dublin's suburban rail system) station opposite the campus. A large number of Dublin's bus services pass by the University and national bus routes are a few minutes walk away, Dublin's two main train stations are in close proximity, while Dublin airport is 13km from the campus and is directly accessible via bus or taxi. We even have three 'Dublinbikes' (shared cycles) stations adjacent to the campus.

Trinity's location is also advantageous when you are job-seeking – Dublin's 'Silicon Docks' are within walking distance, as is the International Financial Services Centre, and a large number of other businesses and organisations have their Irish headquarters close by. The Dublin region is also home to many global corporations across a range of sectors.

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

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

Student Life at Trinity

Your First Year in Trinity

What happens after you join us in Trinity? Well, we know it's a time of tremendous excitement and anticipation, but also a time of some trepidation, so your first week is all about helping you discover Trinity and meeting lots of new people. Freshers' Week is when it all happens – there are no classes, so it's all about information sessions, seeing what sports clubs and societies you want to join, meeting your student mentor who will give you a tour of campus and organise social events, meeting your Tutor who will provide support to you throughout your years in Trinity, and of course the Freshers' Ball.

During Freshers' Week you can also meet people from the Sports Centre, and Student Supports and Services (e.g. Student Counselling, Health Service, Disability Service, Chaplaincy, Student Learning Service, Careers Advisory Service and the Day Nursery). These are the services whose job it is to make sure that you get the best out of your time in Trinity.

What happens after Freshers' Week?

After the excitement of Freshers' Week, teaching starts and you get a chance to settle into your course. Most classes are a mixture of lectures and tutorials and some have practicals as well. The tutorials are less formal and give you a chance to explore and discuss the topics covered in lectures with your classmates and teaching assistants.

Of course it doesn't stop there. Your class rep organises events throughout the year that give you endless chances to get to know your classmates. As the first year progresses there are many other events to make sure that you enjoy your time in Trinity, including Re-Freshers' Week in week 4 (another chance to join sports clubs and societies), Trinity Arts Festival, RAG (Raise And Give) Week, Trinity Ball, Students' Union activities and entertainment and many, many more events run by the 168 sports clubs and student societies. And that doesn't include all of Dublin's many attractions that are literally on your doorstep: cinemas, music venues, festivals, theatres, bars, nightclubs, and the outdoor life in the Dublin mountains and Dublin Bay.

At Trinity we are committed to delivering a transformative experience, not just academically, but personally and socially. The best way to do that is to get you meeting people and involved in activities as soon as possible. That's what you can expect in your first week, your first year and indeed every year that you are in Trinity! One way of doing this is by encouraging you to get involved in activities as soon as possible.

If you want to find out more about life in Trinity, you can check out this Student Life section and look up the sections on Your Support Network, Your Learning Supports, Sport at Trinity, and Student Societies. Also take a look at the 'A Day in the Life' section (see page 11) to see what actual students' days are like in Trinity.

Student Entertainment

University life is about so much more than just education and nowhere is this more evident than at Trinity. Trinity sits in the heart of Dublin city where there are endless extra-curricular and recreational opportunities. You can immerse yourself in a broad range of sports clubs and student societies and 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, from mystery tours on chartered trains to the infamous Iron Stomach competition during RAG (Raise and Give) Week. The Students' Union officer who will have the greatest impact on your extra-curricular 'Trinity Experience' is the Entertainments Officer, who 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 famous Trinity Freshers' Week, filled with day-time and night-time entertainment, giving you a real taste of what Trinity and the capital city have to offer. Previous Freshers' Weeks have seen such acts as Robin Schulz, Klingande, Calvin Harris and Two Door Cinema Club perform for the Freshers' Ball. Together with the Entertainments Officer, student societies put on a dedicated Freshers' Festival offering you a taste of their finest activities. The entertainment doesn't end with Freshers' week though. Throughout the year Trinity Ents will provide you with all the entertainment you could ever need including weekly nights out in Dublin's best nightclubs, huge international gigs, comedy nights, Ireland's biggest mystery tour, live music on campus as well as plenty of other events for you to enjoy.

Trinity Ball

At the end of term something special happens on the campus. Festival marquees and stages are set up and the campus, where you attended lectures all year, becomes the host to the largest private party in Europe. 7,250 students descend on the campus on a Friday night for a party that goes from 10pm to 5am. In recent years the stages have seen the likes of Bastille, Imagine Dragons, Basement Jaxx, The Streets, Example, Jessie J, Rizzle Kicks, Friendly Fires, Ellie Goulding, Charlie XCX, Duke Dumont and Years & Years. The Ball is now in its 57th year and is the highlight of the year for most students.

The Pav

The Pavillion Bar, affectionately known as the Pav is located at the heart of Trinity, overlooking College Park. There really is nothing better then sitting out on the grass with your friends when the sun is shining and the Pav provides a place for you to chill out and get away from the city even when it's all around you. It is the social hub of the University 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 Trinity's doorstep. Whether you're into a night of dance floor fillers, rock and roll, a bit of traditional music, or a trip to one of the local cinemas or theatres, no other university offers such a diverse and easily accessible entertainment scene.

Theatres and Galleries in Trinity

Trinity contains four theatres which 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. These theatres showcase performances during the Dublin Theatre Festival, the Dublin Fringe Festival as well as performances by leading dance and theatre companies from Ireland and abroad.

Also, make sure to visit the free, cutting-edge exhibitions and events at the Science Gallery on the Trinity campus. Find out more at: www.sciencegallery.com

The Douglas Hyde Gallery, located on Trinity's campus, is one of Ireland's leading galleries of contemporary art. Find out more at: www.douglashydegallery.com

The City

One of the biggest advantages to being in Trinity is your proximity to the centre of Dublin. From here you have access to all the best food, drink and entertainment in the country. Almost all of Dublin's new diverse food scene is within walking distance of Trinity. There's something for every budget, from the delis serving up student specials to the 10 burrito bars within a kilometre of Trinity. After your day of study there's a huge array of restaurants and bars to enjoy in the city centre that cater for students. As for shopping, with Grafton Street a stone's throw from the campus you'll never be far away from the shop you need. The best part about all this? Student discounts. With your Trinity Ents discount card you'll get great deals ranging from 20% off to 2 for 1 offers.

More…

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 Angela Merkel, Bono, Al Pacino, Hugh Laurie, Amy Poehler, Chris Hadfield, 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 Trinity ski trip which is the biggest international student trip in Ireland with 500 people travelling to one of the best resorts in the Alps.

Student Societies and Publications

Student Profile | **Aifric Ní Chríodáin, 4th year French and Film Studies**

The best thing about Trinity is the societies! You can take up juggling or trampolining, learn how to knit, dance or make a film, and you can meet amazing guests from Hugh Laurie to Angela Merkel. No other university offers such an incredible variety of top-class society events.

Student life in Trinity is extremely diverse and exciting, mainly due to the daily assortment of events and activities organised by students for students.

We have 120 student societies which constitute the most dynamic and active set of university student societies in Ireland. We cover a multitude of interests from the Animation Society to the Zoological Society and we are home to the world's oldest student societies, the 'Hist' or Historical Society founded in 1770 and the 'Phil' which is the oldest debating society in the world founded in 1683 and whose guests this year have included Amy Poehler and International Space Station commander Chris Hadfield.

Trinity is home to Ireland's only entirely student run orchestra, which regularly plays music festivals such as Electric Picnic and Forbidden Fruit as well as DU Players which are the most active theatre group in Ireland. You can try your hand at everything from gaming to volunteering, get involved at all levels with running a radio station or write, direct and star in your own film or TV show, learn a new language or brush up on your photography or DJ skills. Why not take part in a fashion show or show off your musical talents at an open mic night?

You cannot miss the society stands during Freshers' Week, during which Front Square will be packed with all 120 societies, the Students' Union, the Trinity Publications committee and 48 sports clubs all vying for members. There are numerous events daily throughout the week and it does not let up during term time. Never fear if you don't make it during this week – societies are open to new members throughout the year.

Find out more at: **www.trinitysocieties.ie**

Student Profile | **Éanna Drury, Law, Second Year**

Coming to Trinity was the best decision I ever made. I never thought my time at Trinity would go so quickly, be as enjoyable or introduce me to so many life-long friends, but my involvement in societies ensured that it did. Every conceivable interest is catered for and the buzz on campus that societies generate is indescribable. I can't imagine studying anywhere else!

Trinity Publications

Trinity students produce the widest range of student publications of any third level institution in Ireland. Our current publications include Trinity News; The Bull, Ireland's only student financial paper; Icarus, Trinity's literary journal and Ireland's oldest Arts publication; The Piranha, a satirical newspaper; TCD Miscellany, Ireland's oldest student publication and Trinity Film 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 in 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 (reporter, The Irish Times) and Eoin McVey (managing editor, The Irish Times); Paul McGuinness (former manager of U2); Ed Mulhall (former Managing Director of News at RTE and former Financial Times editor).

Find out more at **www.trinitypublications.ie** and **www.trinitynews.ie**

Trinity Sport

Our diverse sports facilities spread across three locations include:

- 25m swimming pool, sauna and steam room
- Gym, fitness studio and spinning studio
- 3 multi-purpose sports halls
- 2 squash courts
- Climbing wall
- 3 tennis courts
- Futsal court
- 1 international standard water based hockey pitch
- 1 rifle range
- 1 boxing gym
- 3 5-a-side all weather pitches
- 2 changing pavilions
- Full size floodlit GAA pitch
- 3 soccer pitches
- 2 rugby pitches

For more information see **www.tcd.ie/sport**

Sports Centre

The Trinity sports centre is the hub of all sports and fitness activity on campus. With an onsite gym and pool along with activities like Operation Transformation, Intra Mural Sports, Sports Volunteering Programme and Campus Runs we have an inclusive and friendly environment where you will instantly feel part of the Trinity sport family.

The sports centre offers a number of classes and courses including:

- Spinning
- Rip 60
- Bootcamp
- Power pump
- Kettlebells
- Box fit
- Pilates
- Core strength
- Tai chi
- Step & core
- Yoga
- Ballet sculpt
- H.I.I.T. (High Intensity Interval Training)

Our qualified staff are available to offer help and guidance. There are additional costs per class or an annual class pass is available to buy for the fitness class enthusiasts.

Sports Clubs

Sporting life in Trinity kicks off in Freshers' Week when all students are encouraged to join the 48 official sports clubs currently on offer at Trinity, including:

Aikido, American F.C., Badminton, Basketball, Boat, Boxing, Camogie, Climbing, Cricket, Croquet, Cycling, Equestrian, Fencing, Gaelic Football, Golf, Handball, Harriers, Hockey, Hurling, Judo, Karate, Kayak, Lawn Tennis, Netball, Orienteers, Rifle, Rugby, Sailing, Snow Sports, Soccer, Squash, Sub Aqua, Surfing and Bodyboarding, Swimming, Table Tennis, Tae Kwon Do, Trampoline, Ultimate Frisbee, Triathlon, Volleyball, Windsurfing.

Find out more at: **www.ducac.tcdlife.ie/clubs**

Sports clubs are supported at a recreational, competitive and elite level catering to 7,000 student club members annually. There is something to suit everybody.

Our student sport clubs are run by students for students where lifelong friendships are formed and they offer something for everyone regardless of level or availability. Courses and workshops are organised so that you can learn to run a sports club while practical skills can be gained by managing a sports club.

Trinity's clubs have performed well in 2014/2015, with notable successes from our Boat Clubs winning the annual Corcoran and Gannon Cups at the Annual University Boat Races and our Water Polo club was crowned Intervarsity Champions 2015 for the second time in three years.

Accommodation

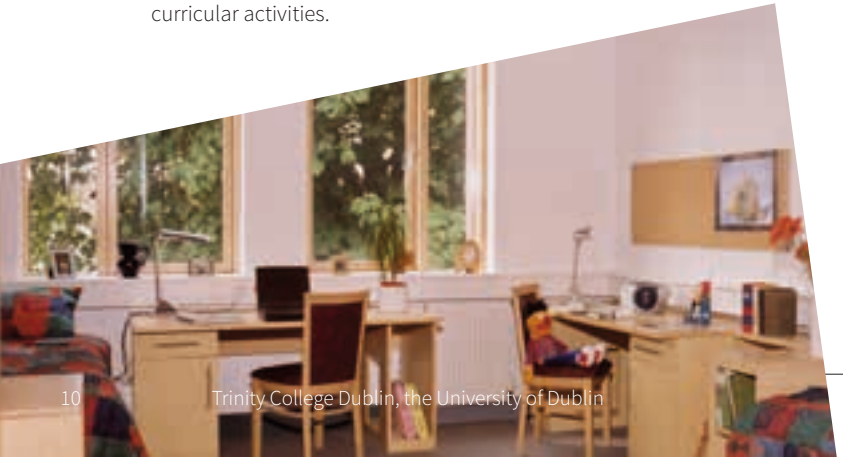
New entrants are predominantly accommodated at Trinity Hall, in Dartry, near Rathmines which is about 2.5 miles (4kms) from the city centre. Trinity Hall is easily accessible from Trinity by bus and the LUAS tram system. There are over 1,000 residential rooms at Trinity Hall and a significant number are reserved for new entrants to the University.

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. Students may apply for a room once they have accepted a place in Trinity.

Find out more at: **www.tcd.ie/accommodation/studentsandstaff/students/applyforaroom**

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. Facilities include a games room, music room, computer room, sports hall, social spaces, shop and a self-service launderette. The Reception area is open 24/7. Residents of Trinity Hall also become members of the Junior Common Room, which organises a range of extra-curricular activities.



- 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 a Friday afternoon and Saturday in late August
- Residential charges range from €4,333 to €5,650 exclusive of utilities and depending on room type. For further 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 University accommodation, the alternative is to seek private rented accommodation, usually sharing an apartment or a house with other students.

The Accommodation Advisory Service helps students find accommodation by providing them with advice and access to house-hunting resources. A database of properties is available to be viewed all year round. During August and September a fully staffed service is run from the Students' Union Office. 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 lodgings (residing in a room in a house with meals provided).

For further information and advice see: **www.tcd.ie/accommodation/studentsandstaff/usefulinformation/privaterentedaccommodation** or follow us on Facebook at TCDSU Accommodation Support

A Day in the Life...

Brendan McDonnell

1st year B.E.S.S. student entered Trinity on the HEAR scheme

8am

Get up and get ready.

9am: Lecture

Some lectures might be one or two hours long. If it is two hours long I might grab a coffee half way.

12am: Lunch

Usually I will meet up with a few of my friends and grab a burrito in town with them.

1pm: Library

There are always assignments due for B.E.S.S. each week. I would spend time doing maths revision and then try get a good grade in the weekly maths quiz. Tutorial work has to be done, such as economic problem sets.

4pm

Meet up with friends at the Pavilion.

5pm: Tutorial

This is where most of the work is done. We all engage and discuss what was taught in the previous week's lecture and discuss about exam preparation and for some weeks I might have to prepare work for a presentation.

7pm

Prepare and cook dinner with friends back at home.

Evening

I might play some football with a few friends and then do some reading for my next tutorial.

Niamh Boyle

3rd year Law student from Northern Ireland

8am: Work

I am a Student Shelver and re-shelve books in the Berkeley Library, on the history floor, for two hours every morning.

10am: Lecture

The lecture is on Jurisprudence, the theory of law and is taking place in the JM Synge theatre.

11am: Library

I go to the law library, where most of the law students study, to prepare for today's tutorial.

1pm: Lunch

Have lunch with friends in town.

3pm: Seminar

In my commercial law tutorial we were given the opportunity to get feedback from the tutor on course material. Seminars are the place where you learn the most, picking up ideas from your peers.

6pm: Food and Drink Society

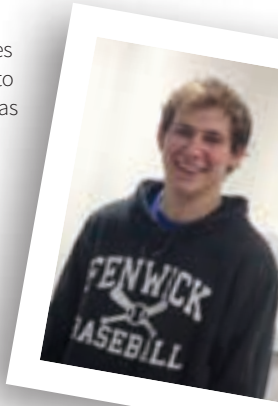
This week's event is a barista coffee class, teaching us how to make the perfect brew at home.

Evening

Cook dinner with housemates. Take time to catch up with friends to round off the day.

Charlie Stein

2nd year Mathematics student from the US



I live on Pearse Street, a 5 minute walk to Trinity. Classes are staggered throughout the day, so in between I like to go to the Berkeley Library. The 24-hour study section has a really cool view over the Cricket Pitch.

For lunch, I generally go to a nearby shop to grab a sandwich or sometimes we go to Café Napoli for pizza. At other times I go to the Buttery for their cheap lunchtime deals.

I play basketball once a week for about 2.5 hours. It's different playing sports here than in the US. It's competitive, but not pressurised. The others on the team are dedicated but like to have fun.

In the evenings there's always something going on. In first year, I really enjoyed events which were held at the Junior Common Room or in Trinity Hall. "The Hall Ball" is a really fun event that's only for first years. The Junior Common Room also runs other random events like quizzes. I really enjoy the team aspect. I like getting off campus too. Some of my favourite pubs to hang out in are right around the edges of campus. But often we just hang out at other friends' apartments.

A Global Campus

Spotlight: Discover Ireland with the International Student Society (DUISS)

DUISS was founded in 1984 to promote communication between the Irish students of Trinity and those coming from abroad and now has over 500 members. Events include social nights, talks and presentations, film screenings, day trips and weekends away.

Average events per week:	3
Day trips per year:	30
Weekends away per year:	5
Recent destinations:	Killarney, Cork, Galway, Belfast, Kilkenny

This is only one of the many international societies on campus.

As Ireland's leading university located in the centre of the vibrant, multi-cultural capital city, Trinity is committed to educating global citizens, be they Irish students making an international impact or students from over 100 countries sharing their cultural experiences with the Trinity community.

Trinity Global Room

Opened in 2013, the Trinity Global Room is a unique social and event space that has quickly become a hub of international activity on campus. It features a multi-purpose layout, 12 large-screen televisions with over 300 international channels, a full-time Student Support Officer and a staff of student ambassadors. No two days are the same in the Global Room. Hosting close to 400 events a year, the Global Room highlights the richness of Trinity's international community.

A team of student ambassadors, made up of both Irish and international students, are trained to offer support in navigating Dublin, locating student services throughout Trinity and providing a friendly ear for any student concerns.

Find out more at: **www.tcd.ie/study/non-eu/global-room**

International Societies and Clubs

Trinity is famous for its diverse society life and for being home to the oldest student society in the world (see page 8). The number of clubs, societies and publications grows every year as students found new societies and clubs. Some of the most active societies are the cultural organisations which celebrate international holidays, share local foods, debate global politics and strengthen cultural awareness. Trinity societies and clubs with international themes include:

Afro-Caribbean Society, American Football Club, Arabesque Society, Caledonian Society, Capoeira Society, Chinese Society, Cumann Gaelach, Europa Society, French Society, Germanic Society, Indian Society, International Student Society, Italian Society, Japanese Society, Jewish Society, Korean Society, Modern Languages Society, Muslim Student Association, Russian Society, Society for International Affairs (SoFIA), South East Asian Society (DUSEAS), SUAS, and Trinity Global Development Society.

Places to Eat and Relax

Restaurants and Coffee Shops on Campus

Students can choose from a wide range of restaurants and coffee shops on campus 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 serving a range of hot meals and deli options.
- Coffee shops in the Arts Building, the Westland, Áras an Phiarsaigh, and the School of Nursing and Midwifery.

See: **www.tcd.ie/catering** or follow us on **Facebook** or **Twitter** (**@TCDbites**) for further details and special offers and promotions.

Dublin City

As Trinity is located at the heart of Dublin city, you have the best range of delis, cafés, restaurants in the country on your doorstep. See 'The City' on page 7 for more information.

An Ghaeilge/The Irish Language

There are many opportunities to enjoy the Irish language in Trinity, whether you are fluent or a beginner.

Trinity offers free Irish classes, from beginners to advanced levels, to all students. Through our Irish Language Residency Scheme, Trinity provides accommodation and grants to Irish-speaking students who wish to live with other Irish speakers and to promote the language.

An Cumann Gaelach (**www.cumann.ie**) is a large, multi-award-winning student society with an unmissable programme of events. It is also a welcoming community where making new friends is easy. Seomra na Gaeilge is a comfortable social space in the heart of the campus, where students can chat together in Irish.

Find out more at: **www.tcd.ie/gaeloifig**

Tá an iliomad deiseanna ag mic léinn Choláiste na Tríonóide sult a bhaint as an Ghaeilge, bíodh siad ina dtosaitheoirí nó ina gcainteoirí líofa.

Cuireann Coláiste na Tríonóide ranganna Gaeilge, ó bhunleibhéil go hardleibhéil, ar fáil saor in aisce do mhic léinn. Tríd an Scéim Chónaithe, tugann an Coláiste lóistín agus deontais do mhic léinn le Gaeilge atá ag iarraidh cónaí le cainteoirí Gaeilge eile agus an Ghaeilge a chur chun cinn sa Choláiste.

Is cumann mac léinn mór é An Cumann Gaelach (**www.cumann.ie**), a bhfuil roinnt mhaith gradam buaite aige agus a mbíonn an-chlár imeachtaí ar siúl aige i gcónaí. Is pobal cairdiúil é chomh maith a chuireann an-fháilte roimh dhaoine nua. Is spás sóisialta compordach i gcroílár an champais é Seomra na Gaeilge, ina mbíonn mic léinn ag comhrá le chéile trí Ghaeilge.

Tuilleadh eolais: **www.tcd.ie/gaeloifig**

Your Support Network

Trinity is an exciting place, full of opportunities to learn, make friends, and experience new things. While Trinity delivers world class courses, it is not just about your academic development: we also want Trinity to be a place where you can develop socially, morally, culturally and personally.

But with so much going on, we know that you might need a helping hand every now and then. So, from the first day, you will get a personal tutor and a student mentor to make sure you will always have someone to explain things to you, to advise you, or just listen. We also have a range of specific supports and services to help you in your academic and personal lives. These include:

- Student Learning Development
- Student Counselling
- Student Health
- Tutor Service
- Careers Advisory Service
- Disability Service
- Chaplaincy
- Day Nursery

We also have specific support programmes for international students, mature students and students from socially or economically disadvantaged backgrounds.

There is always someone to listen and help. We want to make sure that Trinity is a place where you are given the best chance to reach your goals.

Prof. Kevin O'Kelly, Dean of Students

Personal Tutor

In your first week in Trinity you will be assigned a personal tutor (a member of our academic staff). Your personal tutor will then be available throughout your time in Trinity to offer help and advice on topics such as:

- Changing course, exam results, appeals, taking a year out;
- Financial difficulties;
- Family and personal problems.

Essentially, your tutor will help with anything that gets in the way of you achieving your full potential. They will act on your behalf where necessary, and help you contact other student support services should you need them. Find out more at: **www.tcd.ie/Senior_Tutor**

Looking forward to seeing you in Trinity.

Claire Laudet, Senior Tutor

Student Mentors

You'll meet your Student 2 Student (S2S) mentors during Freshers' Week and they will make sure that you know other people in your course before your classes even start. They will also show you around the campus and how to use the library. Your mentors 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. In addition, there are specific programmes for mature and international students.

S2S mentors are students, just like you, so you never have to worry about asking them a question or talking to them about anything that's worrying you.

S2S also offers Peer Supporters, a team of students who are specially trained to listen confidentially to another student. No problem is ever too big or too small.

S2S is supported by the Senior Tutor's Office and the Student Counselling Service.

Find out more: **http://student2student.tcd.ie**

> As a student in first year, I had two brilliant S2S mentors who gave us helpful advice and showed us the ropes which definitely made it easier to settle in!

> I found that my S2S mentors really helped me in understanding my coursework and in my transition to Trinity.

> During my first year I was new to Dublin. I felt that my S2S mentors really helped me a lot to settle in.

Access Services – Trinity Access Programmes

TAP (the Trinity Access Programmes) provide a range of supports to students who enter Trinity through the Higher Education Access Route (HEAR), Foundation Courses for Young Adults and Mature Students, and the CDETB University Access Courses.

These supports include:

- A tailored pre-university orientation programme which takes place the week before Freshers' Week.
- Academic supports such as extra tuition, a writing resource centre, laptop lending service, maths help room and a designated study space with IT resources.
- Social and personal supports – each student is linked to a member of the TAP staff, their TAP advisor. Advisors are available to meet with students and offer advice, guidance and support and assist 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.

Further information about the full range of TAP services and supports can be found at: **www.tcd.ie/Trinity_Access**, Email: tapadmin@tcd.ie or tel: +353 (0)1 896 2751 / 3598.

Mature Students Officer

Trinity welcomes mature students and a mature student officer is available to provide guidance and support to prospective applicants. Supports include:

- Application advice and clinics.
- Further education campus visits.
- Shadowing opportunities.
- A tailored week long orientation programme for mature students prior to the start of term in September.

> The mature student orientation was my first exposure to the University and was a great opportunity to meet my fellow classmates. The programme was packed with practical guidance and useful advice which really helped me find my feet. It is recognised that mature students may need a particular type of support from time to time and that support is there. It is reassuring to know that mature students are warmly welcomed and add to the rich tapestry that is the Trinity experience.
>
> **Orla Crowe, Year 1, Social Studies.**

For further information on studying in Trinity as a mature student please tel: +353 1 896 1386, Email: mature.student.officer@tcd.ie or visit: **www.tcd.ie/maturestudents**

Disability Service

Will you need a little extra support when you enter and during your studies in Trinity? Do you have additional learning supports during your second level studies? Trinity has in place the structures to ensure there is equal opportunity in education to all students and to support those who may have a disability. If you are attending Trinity as a student with a disability you are encouraged to register with the Disability Service. Here are a few, but not all, of the supports and services available to students with disabilities:

- Advice to Leaving Certificate students thinking of coming to Trinity on admission, course choices and supports.
- A Disability Officer who will assess your needs and work with you during your student journey.
- The use of assisted technologies to assist in your learning.
- UNILINK: A student centred occupational therapy service to support you developing practical strategies to manage your new role as a university student.

For more information on the Disability Service and supports available, see: **www.tcd.ie/disability**

Students' Union Supports

Trinity's Students' Union is the main representative body for all 17,000 students in Trinity. The Students' Union represents your views and interests on a variety of issues, such as tuition fees, library opening hours, accommodation and the provision of student services.

The SU operates two shops, a café, a student kitchen and the Student Travelcard service here in Trinity and also have an Ents Officer who organises great events for you to enjoy. The Students' Union offers pastoral services in the form of the Education and Welfare officers, who are there to help with any issues you have around finances, mental health, academic difficulties or just offering advice and assistance when you need it. The aim is to make your transition from secondary school to third level as easy as possible.

The Students' Union operates a class representative system to help keep ahead of any problems you may face at Trinity. Becoming a class rep is a great way to get involved with student life in Trinity, extending it beyond lectures and tutorials, and it means that you get to represent your class to the Students' Union.

The Union is your resource to make the most of your Trinity Experience and to make sure your voice is heard.

Find out more at: **www.tcdsu.org**

> We're student led and student run, and we're here to look after you, to provide you with services, and to make sure that your voice is heard. Our offices, services and helpdesk are open all week, so we're always available when you need us. Our job is to listen to you. We take what you think, what you want and what you need to the University and make sure that you're taken into consideration whenever any big decisions are being made.
> **Lynn Ruane, Students' Union President**

International Students' Supports

TRINITY GLOBAL ROOM
With a full-time international Student Support Officer and a team of student ambassadors, the Trinity Global Room is a great first stop for students with questions about navigating Trinity, Dublin and Ireland. The Global Room is open Monday-Friday from 9.30am to 9pm. Contact us at: tcdglobalroom@tcd.ie

NEW TO DUBLIN
The Global Room staff and the peer mentors from Student 2 Student run this term-long programme for all students who are new to Dublin, whether you are from outside Dublin or outside Ireland. The groups meet in the Global Room every Monday evening and cover everything from Dublin grocery shopping and public transport to making friends and adjusting to social differences.

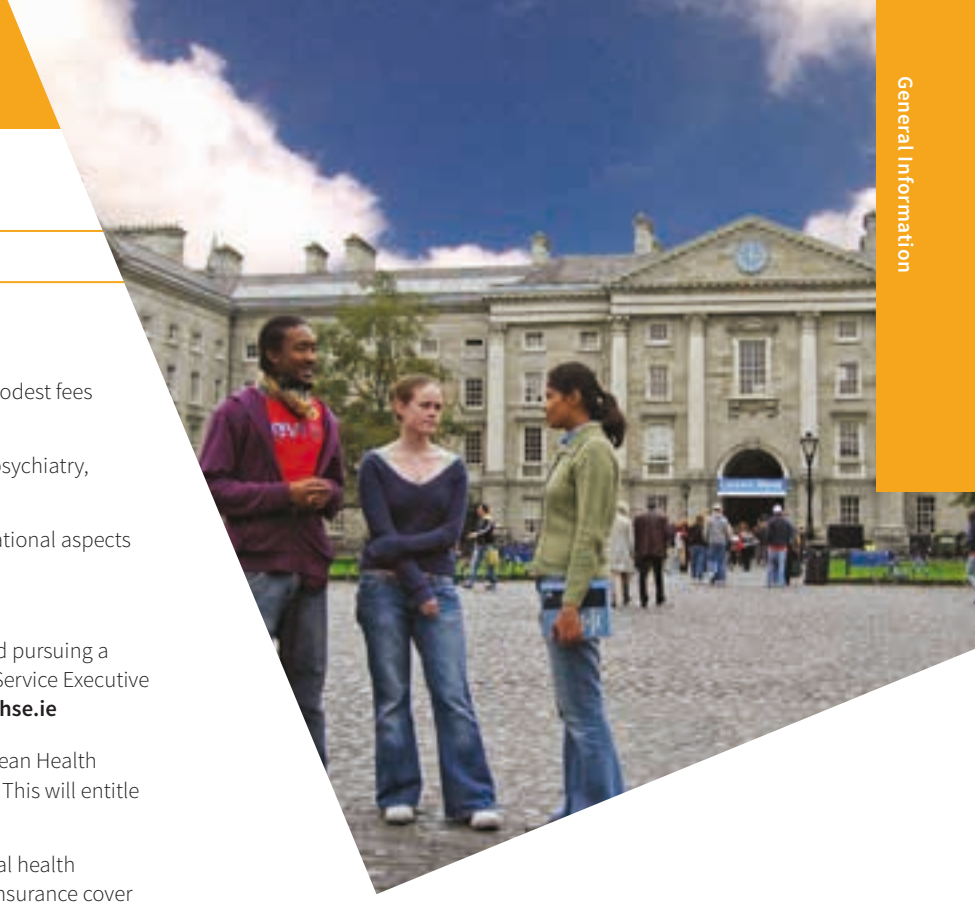
AIRPORT MEET AND GREET SERVICE
New international students arriving at Dublin Airport can avail of this optional, free service. You will be met by a current student at the airport and shown how to get to Trinity's campus or your accommodation. Find out more at: **www.tcd.ie/study/non-eu/undergraduate/coming-to-trinity/airport**

INTERNATIONAL STUDENT ORIENTATION
During Freshers' Week, a series of sessions for both EU and non-EU international students address cultural adjustment as well as practical concerns like banking and immigration. **www.tcd.ie/orientation**

TRINITY SMART-START PROGRAMME
This week-long programme is designed to introduce new international students to Irish history, literature and culture as well as help students adjust to life in Trinity and Dublin. The course runs the week prior to Freshers' Week and details can be found at: **www.tcd.ie/study/understandingireland**

INTERNATIONAL CAREERS ADVISER
Trinity's Careers Advisory Service has Ireland's only dedicated International Careers Adviser, who provides guidance for international students looking for work in Ireland as well as students interested in finding employment abroad.

ENGLISH FOR ACADEMIC PURPOSES
The Centre for English Language Teaching runs both pre-sessional and in-sessional English language programmes for incoming and current students who are non-native speakers of English. Find out more at: **www.tcd.ie/slscs/english**



Health Service

The Health Service provides primary care medical 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 at: **www.hse.ie**

- All EU students should bring with them a European Health Insurance Card issued in their country of origin. This will entitle them to free prescriptions.
- 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

Our goal is to help you succeed at Trinity. We provide a range of free, confidential, and professional services to all registered Trinity students:

- Short-term counselling for personal issues, including a daily emergency session and lunchtime drop-in consultations.
- Supportive groups aimed to help you flourish: including mindfulness, improving mood, and overcoming anxiety.
- Wellbeing workshops e.g. self-esteem, assertiveness, relaxation, and managing stress.
- An after-hours Niteline telephone service run by students for students. Freephone: 1 800 793 793, 7 nights per week during term-time, 9 pm-2.30 am.

Find out more at: **www.tcd.ie/student_counselling**

Chaplaincy

The Chaplaincy team in Trinity works closely together and represents three of the main Christian traditions in Ireland: Roman Catholic, Church of Ireland (Anglican/Episcopal) and Methodist.

Our common area is a place of hospitality for all members of the Trinity community. Students of all faiths, a little faith, or no faith, are welcome.

A variety of worship gatherings and events are organised during the year – traditional, and non-traditional Christian services (denominational and ecumenical) take place daily on- and off-campus during term time. Various pilgrimage/social/justice trips also take place every year.

During term time, an endless supply of tea, coffee and biscuits are available all day in the Common Room (House 27) and you are sure to receive a warm welcome. All students are invited to call in any time – but especially for the free lunch on Tuesdays. Come early, it's always full.

Find out more at: **www.tcd.ie/chaplaincy**

Day Nursery

Trinity'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. The nursery is approved for the CCS, ECCE and CETS scheme. The nursery fees for students are €145 per week with a sibling rate of €262.50.

Find out more at: **www.tcd.ie/about/services/daynursery**

Your Learning Supports

Supporting your Transition from Second-Level

Learning at university is different to secondary school and it can be a challenge to manage your own time, meet deadlines, submit assignments, understand the material and motivate yourself to study. This can happen to all students, no matter where you come from or what your background. But no need to worry. Student Learning Development (SLD) can help you study effectively and be successful with our range of services. You can:

- Check out our website: **http://student-learning.tcd.ie** for loads of resources including podcasts, downloads and interactive workshops on topics to help you to manage your time, develop note taking, researching, writing and presentation skills.
- Attend free face-to-face and online workshops on topics including time management, essay writing, reading and note taking, exam preparation and procrastination.
- Book an individual consultation with a learning advisor or attend the drop-in service to discuss your study issues.

> **It being my first year at Trinity, I didn't really know anything about how I should be studying. The person I spoke to at Student Learning Development helped me greatly as I was wasting a lot of time in the library and not getting much done.**

Further great learning supports are available from the Maths Help Room, the Programming Centre (**www.scss.tcd.ie/psc**) and Peer Learning in Languages. English Language support is available for Trinity students for whom English is a second language (**www.tcd.ie/slscs/English**).

A World-Class Library

The library will be at the centre of where you study and learn. Trinity's library is not just one building, but several, located across the campus and in our teaching hospitals.

There are areas designed for discussing your recent lectures and working together on group projects and there are also designated quiet areas where you can do serious study and catch up on your notes and reports.

Starting with welcome tours during Freshers' Week, library staff are available to help you throughout your time in Trinity.

The library isn't just a place with books. The library is on your phone, tablet and computer, and available anywhere in the world. There's WiFi and in excess of 300,000 e-books as well as millions of online journal articles. Of course we've regular books too – about 6 million, more than any other library in Ireland and on every subject.

Don't forget the Book of Kells, a beautiful Celtic manuscript known worldwide. Admission is free for Trinity students.

Find out more: **www.tcd.ie/library**, and follow us on Facebook and Twitter to find out more.

IT Services

You can find all of the information you will need about IT services at the Information Systems Services (IS Services) website: **www.tcd.ie/isservices**

As a student at Trinity, you'll receive an @tcd.ie email address. It's a lot like Gmail as it is provided by Google. You'll also get an account which gives you access to WiFi, library services, and other IT services.

Computer rooms are located across campus, with both PC and Mac computers, and in some cases these rooms have 24-hour access using your Student ID card. Printing services (including photocopying and scanning) are available in computer rooms and in libraries.

If you ever need IT support, our IS Services Service Desk is on hand to help. You can find us on campus, or you can email us at: helpdesk@tcd.ie, or tel: at +353 (0)1 896 2000.

Optional Courses

OPTIONAL LANGUAGE COURSES

Optional language learning offers Trinity students the chance to study a language alongside your course at no extra cost. Language learning allows you to expand your options for studying abroad during your degree, gives you a competitive edge in graduate employment and enhances your future mobility and your intercultural awareness. As well as learning a language, you will gain key competencies such as communication, teamwork and collaboration, interpersonal skills and confidence in giving presentations.

The following languages are available: Irish, French, Spanish, Italian, German, Turkish, Croatian, Korean, Japanese and Mandarin. For some languages, the minimum entry requirement is a Leaving Certificate (or equivalent) qualification. Other language modules are open to complete beginners. These modules are designed for students who are not taking a language as part of their degree programme.

The number of places available for students in their first year at Trinity is limited but these modules are available in each year of your studies. In some degree courses you can take these modules for credit, which means your score will appear on your final university transcript. Whether you take a language module as an optional extra or for credit you will receive a certificate on completion of the module which confirms your proficiency level according to internationally recognised norms.

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

BROAD CURRICULUM

Interested in broadening your education or University experience?

How about taking a module from outside your chosen course?

Options available include modules in the following areas:

Literature, Irish cinema, languages, philosophy, psychology, political science, business and entrepreneurship, law, planet earth, art in Ireland, science and technology, gender and society, European studies, Greek art and architecture, Roman art and architecture, history, Asian studies, Book of Kells and theology.

These optional modules account for approximately 10% of the teaching for the year and give you a great chance to develop an interest or skill beyond your immediate course. You would possibly be taking your chosen module with fellow students from other undergraduate courses, where Science and Engineering students meet fellow students from Arts or Health sciences, broadening your Trinity Experience and providing a wonderful opportunity to view the subject from a different perspective.

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

Starting Your Career

Your Career Journey at Trinity

First Year	Second Year	Third Year	Fourth Year
Join clubs & societies or take advantage of volunteering opportunities to develop skills.	Check out summer work options in Ireland or overseas (J1 visas).	Apply for work experience and internship opportunities this summer.	Key decisions in relation to future direction.
Make use of Student Learning & Support to perfect study and exam technique.	Put yourself forward for positions of responsibility in your clubs or societies.	Join the GradLink mentoring programme.	Apply for jobs, further study programmes or time out options as appropriate.
Check out short (1 week) work experience opportunities.	Learn extra skills – computing, languages etc.	Explore future career options and whether postgraduate study will be necessary.	If you have an idea for a new business this could be the time to try it out.

Companies recruiting at Trinity recognise the difference that talented graduates can make and employer events on campus cover the full range of opportunities from commercial to not-for-profit.

Trinity College Dublin, the University of Dublin is the only Irish university to appear in the 2014 'Global Employability University Ranking' which ranks the world's top 150 universities in terms of employability.

Source: Emerging/Trendence

60% of alumni are based in Ireland. 38% have over 10 years' experience, with 18% classified as Director, VP, Owner or Partner.

Source: LinkedIn

Ireland is a hub for international employers

- Over 1000 international companies
- 9 out of 10 of the world's leading ICT corporations
- 9 out of 10 of the world's leading Pharma companies
- 12 of 15 leading Medical devices companies
- All 10 "born on the internet" firms
- Over half of the world's top gaming companies
- Over half of the world's leading financial firms

Source: IDA

The Class of 2013

93%	78%	18%
in employment or further study	had a starting salary of €17,000+	earned €33,000+

- 3% seeking employment.
- 2% not available for employment or study (taking time out, travelling etc.).
- 2% undertaking unpaid internship.

Many employers recruit graduates from any discipline so course choice will not necessarily hinder future career plans.

Typical employers recruiting at Trinity

How the Careers Advisory Service can help you

1,670	Appointments available for guidance, CV review and practice interviews.
3,000+	Students book to attend class sessions and training seminars.
800+	Students attend specialist or sector specific careers fairs on campus.
2,700+	Graduate as well as work experience and internship vacancies advertised.

Trinity's Careers Advisory Service has been rated in the top 5 in Europe since 2013.
Source: International Student Barometer

Through your studies and extra-curricular activities at Trinity you will develop the workplace skills required by Irish employers.

Key Skills

- Communication
- Ability to apply professional/technical knowledge in the workplace
- Working effectively with others
- Leadership
- Business acumen

Source: IBEC

The support we offer will not end when you graduate. You will continue to receive lifelong access to the Careers Advisory Service and the unique supports that it provides.

Start Your Own Business/Social Enterprise

Innovation and entrepreneurship are central to the Trinity education and many graduates are interested in setting up their own companies or social enterprises.

Launchbox aims to support students to develop new start-up companies or social enterprises. Successful applicants are supported by Trinity Angels which is a network of Trinity's alumni and friends. Students receive 3 months free office space, mentors to help guide them, master classes in marketing and funding and they are funded to cover costs for the entire summer programme so they can focus on the start-up. Following completion of the 3 month programme they then pitch their start-up to a group of investors. Find out more at: **www.launchbox.ie**

What Students say about the Careers Advisory Service…

"It defined what skills are necessary and how to promote yourself in the best light possible for potential employers."

"Practical, useful advice and essential information."

"Overall it gave me a greater insight into the jobs market."

"Their advice on how to get your foot in the door of the industry was extremely helpful."

"The workshops gave me the confidence to reflect on my own skills. I feel more confident for life after University."

And Employers…

"As a significant employer of Trinity graduates, we believe Trinity students develop and demonstrate the key skills and commercial awareness required to progress in Deloitte, such as problem solving ability, analytical skills, communication skills and commercial awareness. The quality and breadth of experience students receive while at university positions them very well to succeed."

Study, Research or Volunteer Abroad

Trinity is committed to educating globally-engaged citizens. In addition to offering a range of international activities on campus, students are encouraged to explore study, volunteer and work opportunities around the world. Spending time abroad enhances your academic, cultural and personal skills and sets you apart in the global job market.

Study Abroad

Trinity has partnership agreements with some of the world's leading universities, offering Trinity students the chance to study abroad as part of their degree. In addition, Trinity is a longstanding participant in the Erasmus Programme of European exchange, offering hundreds of options for students looking to study in Europe.

Non-EU exchange options include: Australia, Brazil, Canada, China, Hong Kong, Japan, Russia, Singapore and the United States.

International Welcome Programme

The International Welcome Programme connects Trinity students, on an exchange, with Trinity alumni volunteers who reside in that region to provide support, cultural advice and networking opportunities. There are over 103,000 Trinity alumni scattered across 130 countries worldwide. Students benefit enormously from the exchange of ideas with alumni and gain useful insights into making the most of their time abroad.

Summer Programmes

Trinity students have the opportunity to get involved in summer programmes offered in our partner universities in many cities around the world. Each year Trinity students are offered discounted prices and a number of tuition-free places from our partners. Find out more at: **www.tcd.ie/careers/students/international**

Working Abroad

Trinity's Careers Advisory Service works with international employers to offer work experience and graduate job listings around the world. The Erasmus Work Placement/Traineeship programme enables students to work in another European country. The Erasmus Work Placement/Traineeship Programme provides you with the opportunity to work in an international environment and to put your academic learning into practice. It will improve your language skills and enhance your CV by providing international employment experience.

Spotlight: International Work Experience

> Working in a distant country could be a daunting experience, but during my summer internship with Crompton Greaves I was made feel exceptionally welcome. I was based in Mumbai, which is a very exciting, diverse city. They gave me a fantastic experience of Indian life and I also felt that the work I was doing was important and valued. I am only sorry that I was not able to stay longer!
>
> **Michael Cullinan, MAI Engineering 2015**

Spotlight: Global Volunteering

A collaborative project between Trinity's Centre for Global Health, the Norwegian Institute of Technology and six African universities in Sudan, Malawi, Namibia and South Africa, the EquitAble project researches how to promote greater access to health care for people with disabilities and other marginalised groups in those four African countries. EquitAble aims to enable universal and equitable access to healthcare for vulnerable people in resource-poor settings.
http://global-health.tcd.ie/research/projects/equitable.php

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

OPEN DAY 2015

Saturday 5th December 2015

We look forward to meeting you at our open day!

The exciting and informative programme of events will include:

- ➜ Course specific presentations
- ➜ Stands for each course, talk to our academic staff and current students to obtain detailed course information
- ➜ Demonstrations and laboratory tours
- ➜ Presentations about accommodation, student sports, societies and the Students' Union
- ➜ Specific sessions for mature students, access students and parents
- ➜ Campus tours including the Trinity sports centre

All second-level students, their parents/guardians, mature students, teachers and guidance counsellors are invited to attend.

Full details will be available in November at:
www.tcd.ie/study/eu/undergraduate/events

Find Out More About Trinity

Maths/Physics Open Day

Do you like experiments and solving problems? Have you ever wondered what the difference is between a star and a planet? Have you ever asked yourself what is string theory all about?

On Saturday 14 November 2015 our Maths/Physics Open Day gives you the opportunity to ask the experts.

We have all the information you need to decide between Trinity's physics and maths degrees in one single day. From life in a lab to careers for our graduates in research and industry, Math/Physics Open Day includes tours, information sessions, student-led discussions and much more.

Find out more at: **www.maths.tcd.ie** or **www.tcd.ie/physics**.

Law Open Day

The School of Law will be holding an open day on Saturday 17th October 2015. This event is open to 5th and 6th year students, considering taking a law degree. It is designed to give you a taste of what it is like to be a law student and to find out more about the subject itself.

Throughout the day you will attend seminars and lectures in modules taught on our law degrees and delivered by current lecturers. Amongst the topics covered will be torts, contract, constitutional law, evidence and criminal law. There will be plenty of opportunity to talk to staff and students in a relaxed and informal setting.

Find out more at: **www.tcd.ie/law** and **facebook.com/TrinityCollegeDublinLaw**

EU Students

Higher Education Fairs in Ireland

Trinity is represented at all of the major higher education fairs in Ireland which are organised by the Institute of Guidance Counsellors and at many other regional careers fairs each year. At these events prospective students can obtain copies of the prospectus and find out about Trinity's courses, specific entry requirements and student life at Trinity. 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 are available to visit a limited number of schools to provide a presentation about Trinity and our range of courses. If you would like to request a visit to your school please contact the Student Recruitment Officer by email: ug.recruitment@tcd.ie or by telephone at +353 1 896 4622.

Specific visits from our Schools of Computer Science and Statistics, Nursing and 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.

To request a visit please contact:

- The School of Computer Science and Statistics: Email: events@scss.tcd.ie Tel: +353 (0) 1 896 3665
- The School of Engineering: Email: engineering@tcd.ie Tel: +353 (0) 1 896 1142
- The School of Nursing and Midwifery (Jeni Ryan): Email: ryanjen@tcd.ie Tel: +353 (0) 1 896 3860
- The School of Religions, Peace Studies and Theology, Department of Religions and Theology: Email: jwelch@tcd.ie Tel: +353 (0) 1 896 1297
- The School of Religions, Peace Studies and Theology, Loyola Institute: Email: gamccabe@tcd.ie Tel: +353 (0) 1 896 3477

Listen to what students from your county have to say about studying at Trinity at: **www.tcd.ie/explore**

Visiting Trinity and Campus Tours

Guidance counsellors may request an on-campus presentation and a campus tour for visiting school groups. See the previous 'School Visits' section for contact details.

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 email: events@scss.tcd.ie or by telephone: +353 (0) 1 896 3665.

All potential applicants are more than welcome to call in to the Academic Registry in Trinity on weekdays to discuss Trinity's application procedures and admission requirements: **www.tcd.ie/academicregistry**

The Trinity 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 and please contact +353 (0) 1 896 2320. **www.tcd.ie/library/bookofkells**

The Science Gallery also holds regular exhibitions and events, see page 7.

Mature Students

INFORMATION SEMINAR
If you are interested in making an application as a mature student, you are invited to attend our application seminar on Thursday 7th January 2016 from 5pm to 6pm and repeated again from 6pm to 7pm. Please visit the mature student website in December 2015 to find out more: **www.tcd.ie/maturestudents**

DISCOVER TRINITY EVENT
Discover Trinity is an exciting week of events that takes place in November each year. Discover Trinity provides opportunities to attend lectures, to meet staff and students and to learn more about our courses. Please visit the mature student website in October 2015 to find out more: **www.tcd.ie/maturestudents**

Transition Year Programmes and Summer Schools

Trinity offers a wide variety of programmes for transition year students. See: **www.tcd.ie/study/eu/undergraduate/transition-year-programmes** for details of all programmes and the websites listed below for further details of each programme.

Biochemistry	**www.tcd.ie/biochemistry**
Botany	**www.tcd.ie/botany**
Chemistry	**http://chemistry.tcd.ie/outreach/ty-programme**
Computer science	Contact: events@scss.tcd.ie
CRANN (Nanoscience)	**http://ambercentre.ie/education**
Medicine	**www.medicine.tcd.ie/education/THTYP**
Nursing and Midwifery	Contact Jeni Ryan: ryanjen@tcd.ie
Pharmacy	**http://pharmacy.tcd.ie/news/TY_Programme.php**
Physics	**www.tcd.ie/physics/outreach**
Science Gallery	Contact: typrojects@sciencegallery.com

Trinity also offers a number of Summer schools. Find out more at: **www.tcd.ie/study/summer-schools**

Non-EU Students

The best way to find out if Trinity is right for you is to talk to staff, students and alumni. The Global Relations Office offers several ways to meet us, either on campus or in your home country.

Visit Trinity

Trinity's location and historic campus are even better in person than in pictures. If you are able to make a trip to Dublin, we'd love to meet you. Your campus visit will include a student-led tour and an admissions meeting with a Global Relations representative. We can often arrange meetings with students from your home country or from the course that interests you. If there is something specific you want to see or discuss during your visit, just let us know and we'll do our best to accommodate you.

Sign up for a campus visit at: **www.tcd.ie/study/non-eu/events**

Meeting Trinity Staff in Your Region

Trinity staff travel regularly to meet with students around the world. We also host events in countries like India, China, Brazil and the United States where interested students can meet faculty and alumni. If we won't be in your region soon, get in touch with the Global Relations Office and we'll be happy to answer your questions or put you in touch with a student ambassador.

View our travel calendar at: **www.tcd.ie/globalrelations**

Find your regional representative: **www.tcd.ie/globalrelations/aboutus**

Online Information for all Students

Study at Trinity: **www.tcd.ie/study**

Courses: **www.tcd.ie/courses**

Main Trinity website: **www.tcd.ie**

www.facebook.com/trinitycollegedublin

www.youtube.com/trinitycollegedublin

www.itunes.tcd.ie

www.twitter.com/tcddublin

ARTS, HUMANITIES AND SOCIAL SCIENCES

Arts courses at Trinity

Single honour courses

In a single honour 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.

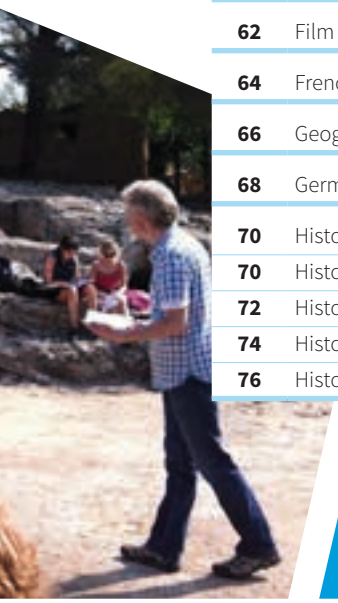
Joint honour Two-Subject Moderatorship (TSM) programmes

TSM is a joint honours degree that allows students to choose two subjects (from a list of 25) and study both to honours 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.

28	Arts: TSM (Two Subject Moderatorship)
30	Business: Bachelor in Business Studies
32	Business, Economic and Social Studies (B.E.S.S.)
36	Business Studies and a Language (French, German, Russian, Polish or Spanish)
126	Business: Computer Science and Business
38	Classics
40	Classics: Ancient History and Archaeology (TSM)
42	Classics: Classical Civilisation (TSM)
44	Classics: Classical Languages (TSM)
46	Clinical Speech and Language Studies
128	Computer Science and Language
48	Deaf Studies
50	Drama and Theatre Studies
50	Drama Studies (TSM)
52	Drama: Bachelor in Acting (non-CAO)
54	Drama: Diploma in Acting and Theatre (non-CAO)
55	Drama: Stage Management and Technical Theatre (non-CAO)
56	Economics (TSM)
58	English Studies
58	English Literature (TSM)
60	European Studies
62	Film Studies (TSM)
64	French (TSM)
66	Geography (TSM)
68	German (TSM)
70	History
70	History (TSM)
72	History: Ancient and Medieval History and Culture
74	History and Political Science
76	History of Art and Architecture (TSM)
78	Irish: Early and Modern Irish
78	Irish: Early Irish (TSM)
78	Irish: Modern Irish (TSM)
80	Italian (TSM)
82	Jewish and Islamic Civilisations (TSM)
84	Law
86	Law with a Language (French or German)
88	Law and Business
90	Law and Political Science
170	Mathematics (TSM)
92	Music
92	Music (TSM)
94	Music Education
96	Philosophy
96	Philosophy (TSM)
98	Philosophy, Political Science, Economics and Sociology
102	Political Science
104	Political Science and Geography
106	Psychology
106	Psychology (TSM)
108	Religions: Catholic Theological Studies
108	Religions: Catholic Theological Studies (TSM)
110	Religions: World Religions and Theology
110	Religions: World Religions and Theology (TSM)
112	Russian (TSM)
114	Social Studies (Social Work)
116	Sociology (TSM)
118	Sociology and Social Policy
120	Spanish (TSM)



Two-Subject Moderatorship (TSM)

TSM is a joint honours degree that allows students to choose two subjects (from a list of 25, see below) and study both to honours degree level. The two subjects are taught separately and the overall workload is similar to that of a single honours 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 221).

Minimum entry points for each TSM combination in 2014 are shown on page 29, while TSM points for other years are available at: **www.tcd.ie/study/eu/undergraduate/admission-requirements/leaving-cert/minimum-points**

Note: Students are not permitted to commence two new languages subjects in TSM. Students wishing to combine two of the following: 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 honours 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	Catholic Theological Studies	Classical Civilisation	Classical Languages	Drama Studies	Early Irish	Economics	English Literature	Film Studies	French	Geography	German	History	History of Art and Architecture	Italian	Jewish and Islamic Civilisations	Mathematics	Modern Irish	Music	Philosophy	Psychology	Russian	Sociology	Spanish	World Religions and Theology
Ancient History And Archaeology				✔			✔		✔			✔	✔	✔	✔					✔		✔	✔	
Catholic Theological Studies						✔						✔		✔			✔		✔						
Classical Civilisation				✔	✔		✔		✔			✔	✔	✔	✔		✔		✔		✔		✔	✔	
Classical Languages	✔		✔		✔	✔		✔		✔		✔	✔	✔	✔		✔		✔		✔		✔	✔	
Drama Studies			✔	✔			✔	✔	✔		✔		✔	✔			✔	✔			✔	✔	✔		
Early Irish		✔		✔								✔	✔		✔										✔
Economics										*	*	✔				*			*	✔	✔	*	✔		
English Literature	✔		✔	✔	✔			✔	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Film Studies					✔		✔		✔		✔			✔	✔		✔	✔			✔		✔	✔	
French	✔		✔	✔	✔		✔	✔			✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Geography							*				*	*				*			*	✔		*			
German					✔		*	✔	✔	✔	*		✔	✔	✔	*	✔	✔		✔		✔	✔	✔	*
History	✔	✔	✔	✔		✔	✔	✔		✔	*	✔		✔	✔	✔		✔	✔	✔		✔	✔	✔	✔
History of Art and Architecture	✔		✔	✔	✔	✔		✔		✔		✔	✔		✔	✔			✔	✔			✔	✔	✔
Italian	✔	✔	✔	✔	✔			✔	✔	✔		✔	✔	✔				✔		✔	✔	✔	✔	✔	
Jewish and Islamic Civilisations	✔		✔	✔		✔		✔	✔	✔		*	✔	✔				✔		✔	✔	✔	✔	✔	
Mathematics							*	✔		✔	*	✔							✔	*	✔				
Modern Irish		✔	✔	✔	✔			✔	✔	✔		✔	✔		✔	✔			✔	✔		✔	✔	✔	✔
Music					✔			✔	✔	✔			✔	✔			✔	✔		✔	✔				
Philosophy		✔	✔	✔			*	✔		✔	*	✔	✔	✔	✔	*	✔	✔		✔	✔	*			✔
Psychology							✔	✔		✔	✔			✔	✔	✔		✔	✔			✔			✔
Russian	✔		✔	✔	✔		✔	✔	✔	✔		✔	✔	✔	✔		✔		✔				✔	✔	
Sociology					✔		*	✔		✔	*	✔	✔	✔	✔		✔		*	✔			✔	✔	
Spanish	✔		✔	✔	✔		✔	✔	✔	✔		✔	✔	✔	✔		✔				✔	✔		✔	
World Religions and Theology	✔		✔	✔		✔		✔	✔	✔		*	✔	✔			✔		✔	✔	✔	✔	✔		

Two-Subject Moderatorship (TSM): Minimum Entry Points for 2014

	AH	CC	DR***	EI	EC	EN	FS	FR	GG	GE	HS	AR	IT	JS	MT	MI	MU**	PH	PS	RU	SC	SP	WR
AH	–	–	–	–	–	525*	–	420*	–	–	505*	430*	410*	415	–	–	–	–	–	450	–	450*	365*
CC	–	–	400	–	–	525*	–	420*	–	–	505*	435	435	395	–	420*	–	440*	–	450	–	450*	385*
DR* **	–	400	–	–	–	525*	400*	420*	–	435	–	435	435	–	–	420*	415	–	–	450	450*	450*	–
EI	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
EC	–	–	–	–	–	–	–	–	485*	490*	500*	–	–	–	550*	–	–	480*	570*	490*	490*	490*	–
EN	525*	525*	525*	–	–	–	525*	525*	–	525*	520*	525*	525*	525*	550*	525*	525*	525*	570*	525*	525*	525*	525*
FS	–	–	400*	–	–	525*	–	400*	–	435	–	–	360*	415	–	420*	415	–	–	450	–	450*	415
FR	420*	420*	420*	–	–	525*	400*	–	–	435	495*	435	435	420*	550*	420*	420*	435*	570*	410*	440*	450*	420*
GG	–	–	–	–	485*	–	–	–	–	435	495*	–	–	–	550*	–	–	430*	570*	–	450*	–	–
GE	–	–	435	–	490*	525*	435	435	435	–	505*	435	435	435	550*	435	–	455*	–	450	450*	450*	435
HS	505*	505*	–	–	500*	520*	–	495*	495*	505*	–	505*	505*	505*	–	505*	505*	505*	–	505*	500*	505*	505*
AR	430*	435	435	–	–	525*	–	435	–	435	505*	–	400*	435	–	–	435	455*	–	–	450*	450*	385*
IT	410*	435	435	–	–	525*	360*	435	–	435	505*	400*	–	–	–	415*	–	455*	570*	435*	450*	450*	–
JS	415	395	–	–	–	525*	415	420*	–	435	505*	435	–	–	–	420*	–	455*	570*	450	450*	450*	–
MT	–	–	–	–	550*	550*	–	550*	550*	550*	–	–	–	–	–	–	545*	550*	570*	–	–	–	–
MI	–	420*	420*	–	–	525*	420*	420*	–	435	505*	–	415*	420*	–	–	420*	450*	–	450	450*	450*	420*
MU**	–	–	415	–	–	525*	415	420*	–	–	505*	435	–	–	545*	420*	–	455*	570*	–	–	–	–
PH	–	440*	–	–	480*	525*	–	435*	430*	455*	505*	455*	455*	455*	550*	450*	455*	–	570*	455*	455*	–	435*
PS	–	–	–	–	570*	570*	–	570*	570*	–	–	–	570*	570*	570*	–	570*	570*	–	–	570*	–	570*
RU	450	450	450	–	490*	525*	450	410*	–	450	505*	–	435*	450	–	450	–	455*	–	–	–	450*	450
SC	–	–	450*	–	490*	525*	–	440*	450*	450*	500*	450*	450*	450*	–	450*	–	455*	570*	–	–	450*	450*
SP	450*	450*	450*	–	490*	525*	450*	450*	–	450*	505*	450*	450*	450*	–	450*	–	–	–	450*	450*	–	450*
WR	365*	385*	–	–	–	525*	415	420*	–	435	505*	385*	–	–	–	420*	–	435*	570*	450	450*	450*	–

* Not all applicants at this level were offered places.

** Applicants are assessed on a music test, interview and on their Leaving Certificate examination results.

*** Applicants are assessed on a questionnaire, interview and on their Leaving Certificate examination results.

Note: **Classical Languages** and **Catholic Theological Studies** were not available in TSM in 2014.

AH: Ancient History and Archaeology
AR: History of Art and Architecture
CC: Classical Civilisation
DR: Drama Studies
EC: Economics
EI: Early Irish
EN: English Literature
FR: French
FS: Film Studies
GE: German
GG: Geography
HS: History
IT: Italian
JS: Jewish and Islamic Civilisations
MI: Modern Irish
MT: Mathematics
MU: Music
PH: Philosophy
PS: Psychology
RU: Russian
SC: Sociology
SP: Spanish
WR: World Religions and Theology

Business Studies

(New for 2016)

COURSE CODE	TR080
PLACES 2016	25
POINTS 2014	n/a
DEGREE AWARDED	Bachelor in Business Studies (B.B.S.)

What is Business?

Business is about creating value from the co-ordinated efforts of people and resources. Making money is just one of the many types of value people create through organising. Organising takes many forms: corporations, start-ups, family businesses, non-profits, government agencies etc. The study of business requires a broad understanding of how human beings apply their skills, networks, knowledge and creativity to problems and opportunities in the world around them – and how they shape that world through their efforts to compete and collaborate over time.

Is this the right course for you?

Studying business opens up a huge range of opportunities for applying your unique talents and interests to achieving your personal objectives. The subject can appeal to people who want to change the world as much as it appeals to people who want to make a profit. Society is made up of a complex tapestry of organisations and if you are interested in exploring how organisations work and where you fit in – this is the course for you.

Why study B.B.S. at Trinity?

When you decide on a career in business you need to ensure that you have the best preparation to succeed and align yourself with one of the world's best and most widely recognised universities. The Trinity Business School is ranked 1st in Ireland (Eduniversal Rankings, 2014) and 16th in Europe (Eduniversal Rankings, 2014) and has a global network of graduates across a broad range of careers.

During the programme students will have the opportunity to develop foreign language proficiency, work as an intern with a firm or non-profit organisation, live and study in another country, and carry out a research project.

What will you study?

In the first year, students will gain an understanding of the historic development of business, organisation and management, together with grounding in the business related social science and quantitative disciplines that underpin them. Over subsequent years the programme provides students with the opportunity to explore a progressively deeper and varied understanding of the subject areas that form a comprehensive education in business and management.

Students will be able to choose not only from the broad set of disciplines contained in Business, but also from a wide range of subject areas across the University to ensure that they have exposure to the different perspectives on knowledge that enable them to become independent and critical thinkers, as well as effective communicators in an increasingly complex and multi-cultural society.

Finally, the programme will require that students choose at least one area of business study to pursue in depth – taking advanced subject area modules and undertaking independent research guided by an academic and/or qualified practitioner to produce a significant and innovative outcome that gives them a unique selling point in the next stage of their career journey.

MODULES

In first year, all students take: Introduction to Organisation and Management, Economics for Management, Quantitative Skills for Business, and the Social, Political and Ethical Environment of Business. In addition, students may choose two optional subjects in a range of social sciences and European languages.

In second year students are introduced to the core skills and theories in business management, including: Organisational Behaviour, Introduction to Marketing Principles, Introduction to Accounting, Introduction to Finance, Introduction to Operations Management, Creative Thinking, Innovation and Entrepreneurial Action, Introduction to Human Resources, and Information Systems in Business. In addition, students may take two optional subjects drawing from the same disciplines on offer in first year, but also including a list of 'broad curriculum' modules from across the University (see page 19).

The third year provides students with the opportunity to make important choices about their personal and career development and to start planning for the next stage in their professional lives. Students may choose from a wide range of business topics (see below) and are

SPECIAL ENTRY REQUIREMENTS		
Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

RELATED COURSES

TR017: Law and Business, page 88
TR081: B.E.S.S., page 32
TR082: Computer Science and Business, page 126
TR085, TR086, TR087, TR089, TR090: Business Studies and a Language, page 36

also required to take the Personal and Professional Development module. This module provides students with a chance to consider the range of careers open to them, to reflect on their own skills, interests and to experience work, volunteering, travel and/or different cultures through structured internships or study abroad.

Examples of module choices in 3rd year:

- Marketing Management
- Management Accounting for Business Decisions
- Financial Accounting
- Applied Finance
- Surveying Finance
- Organisation Theory
- Services and Information Management
- Human Resource Management in an International Context
- Business in Society
- Innovation, Entrepreneurship and New Venture Development

In fourth year, all students are required to take Strategic Management: Theory and Practice and one other module that involves independent research as the core learning activity.

Examples of subject choices in fourth year:

- 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

Study abroad

In third year, students have the opportunity to apply to study abroad in a prestigious European university with the EU funded Erasmus programme (ESSEC, France; Grenoble Ecole de Management, Universidad Carlos III Madrid, Spain; Cracow University, Poland; Rotterdam University, Netherlands; Mannheim University, Germany). In addition to exchange programmes in Europe, the Business School also has bilateral links with leading universities in North America (Babson, Fisher College of Business, Ohio; Goizueta, Georgia and Queens University, Canada).

Our exchange programmes are highly successful, and are an extremely popular option for business students each year. Participating students find that they are hugely enjoyable, academically and culturally rewarding, and a valuable asset to prospective employers.

Further information on the year abroad programme, and a list of partner universities, can be found at: **www.tcd.ie/business/undergraduate/study-abroad**

Careers

Trinity Business School graduates pursue careers across a range of business, government, technology, innovation and social ventures. Banking, finance, accountancy, consulting and marketing jobs top the list of first jobs after graduation and 98% of our students enter employment or further study after graduating. Trinity is known for not only preparing you for your first job, but for future career prospects and promotion as well. Our graduates go on to become leaders in their fields and help to nurture and support the global network of Trinity business graduates throughout their careers.

In addition to positioning students for a broad range of careers, the BBS is designed to facilitate students' entry into graduate courses in business and other related Masters programmes. Having undertaken a significant project of independent study in a business area of their choice, students are well-positioned to apply for post-graduate research study in Trinity as well as other highly regarded research institutions with a high rate of application success.

Graduate Profile | **Iseult Ward, 2013 Business Student of the Year**

I loved studying the various subjects in first year and then found that Business was my favourite one, which was why I specialised in it for the next three years. In third year, I founded a company FoodCloud. I was able to shape my final year courses to keep them relevant to my 'new business' receiving great support from lecturers.

FURTHER INFORMATION

www.tcd.ie/business | Email: business@tcd.ie | Tel: **+353 1 896 3334**

Business, Economic and Social Studies (B.E.S.S.)

Common entry programme leading to 10 degree options

COURSE CODE	TR081
PLACES 2015	236
POINTS 2014	495

DEGREE AWARDED	B.A. (Mod.) in Economic and Social Studies (B.E.S.S.) **or** Bachelor in Business Studies (B.B.S.)

What is Business, Economic and Social Studies (B.E.S.S.)?

B.E.S.S. is a uniquely flexible degree programme offering you 10 different degree options across the disciplines of Business, Economics, Political Science and Sociology. It provides students with a broad education, allowing them to opt for either a single honour or joint honour degree. It also offers a high level of flexibility in two very important ways: from the second year onwards students are allowed to (a) choose the specific degree they wish to take and, (b) choose individual modules within their chosen degree path. Students, therefore, have an opportunity to adjust their study programmes in accordance with their academic results, interests, aptitudes and emerging career aspirations.

Is this the right course for you?

The disciplines of Business, Economics, Political Science and Sociology all look at the world around us, analysing how it works and how to achieve certain ends. Where they differ is in the things they look at and the way they examine them. In your first year as a B.E.S.S. student, you will be introduced to the way that each discipline approaches the complex world that we live in. From the second year onwards, the flexible programme structure allows you to choose the disciplines that appeal to you, along with the specific topics that interest you, through a wide range of modules within each discipline. Graduates invariably tell us that it is this broad, flexible approach that allowed them to build the knowledge and insights that they rely on progressively as they advance to more senior positions in their careers.

Why Study B.E.S.S.?

BUSINESS

Top international professors and leading business people engage with the students, challenge them and guide them into top roles within the business world. Past students are now leaders in the world of business, government, entertainment, technology, innovation and non-profit businesses.

The Trinity Business School is ranked 1st in Ireland and 16th in Western Europe by Eduniversal 2014, and the Trinity MBA is in the top 40 globally (2013 QS Elite Global Business Schools).

ECONOMICS

Many of the economic problems which dominate the headlines are engaged within this discipline. Economics blends together theory, data and statistical techniques to help understand economic problems and to make policy recommendations.

Trinity is ranked 1st in Ireland and in the top 150 universities in the world for Economics and Econometrics (QS World University Rankings by Subject 2015).

POLITICAL SCIENCE

Politics affects us all in our daily lives. Should government tax the rich for greater equality? Should the amount of money the EU spends on agriculture be cut? Questions such as these, along with analysis of political systems and how democracy works, are at the heart of the study of politics.

Trinity is ranked 1st in Ireland and 33rd in the world for Politics and International Studies (QS World University Rankings by Subject 2015).

SOCIOLOGY

Sociology is the study of social change and the consequences of human behaviour. When you study Sociology you will get the opportunity to analyse people and societies, exploring areas as diverse as migration, race and gender, conflict studies, digitalisation, identities and employment studies.

Trinity's Sociology Department is ranked 1st in Ireland and in the top 150 in the world (QS World University Rankings by Subject 2015).

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

RELATED COURSES

- TR001: TSM, page 30
- TR080: Bachelor in Business Studies
- TR015: Philosophy, Political Science, Economics and Sociology, page 98
- TR017: Law and Business, page 88
- TR020: Law and Political Science, page 90
- TR085, TR086, TR087, TR089, TR090: Business Studies and a Language, page 36
- TR082: Computer Science and Business, page 126
- TR083: Sociology and Social Policy, page 118; Political Science: page 102

What will you study?

Studying B.E.S.S. at Trinity

Year 1

Explore your options
A common first year introduces students to a wide range of options. You will study the following 4 disciplines:

Business | **Economics** | **Political Science** | **Sociology**

Also choose one complementary module from Law, Social Policy, Language (French, German, Spanish, Polish, Russian)
Access to all 10 degree options is completely open at the end of the first year.

Year 2

Choose your pathway
Learn the core skills in up to three* of the following disciplines: Business, Economics, Political Science, and Sociology.
While you will mainly focus on your chosen single honour or joint honour discipline(s), you may select some modules from other disciplines.

Single Honour
Choose 1 of:
Business
Economics
Political Science
Sociology

Joint Honour
Choose 1 of the following 6 combinations:
Business and Economics
Business and Political Science
Sociology and Business
Economics and Political Science
Economics and Sociology
Political Science and Sociology

Complementary modules available in Law, Social Policy, Languages, Philosophy, Broad Curriculum
Module choices here determine which disciplines you can pursue in subsequent years.

Year 3

Focus on your chosen Single Honour or Joint Honour disciplines
Choose the six modules that interest you in your chosen discipline(s).

Business | **Economics** | **Political Science** | **Sociology**

Option to study abroad – France, Germany, Spain, Turkey, Sweden, Netherlands, USA, Canada, Australia, Japan, Hong Kong.

Year 4

Research based development of core area(s)
Focus in depth on a few topics from your chosen discipline(s).

Business | **Economics** | **Political Science** | **Sociology**

Dissertation/case study preparation.

B.E.S.S. at a Glance

	Year 1 6 Modules	Year 2 6 Modules Choose 1 or 2 B.E.S.S. disciplines	Year 3 6 modules Specialise in depth in 1 or 2 B.E.S.S. disciplines	Year 4 4 modules Specialise in depth in 1 or 2 B.E.S.S. disciplines
Business	▸ Introduction to Organisation and Management	▸ Organisational Behaviour ▸ Introduction to Marketing Principles ▸ Introduction to Accounting ▸ Introduction to Finance ▸ Introduction to Operations Management ▸ Creative Thinking, Innovation and Entrepreneurial Action	▸ Financial and Management Accounting ▸ Marketing Management ▸ Human Resource Management ▸ Business in Society ▸ Innovation, Entrepreneurship and New Venture Development ▸ Management Accounting for Business Decisions ▸ Introduction to Fixed Income Securities and Alternative Investments ▸ Surveying Finance ▸ Services Management ▸ Digital Technology in Operations ▸ Organisation Theory and Organisational Theory and Analysis ▸ Personal and Professional Development (B.B.S. students)	▸ 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 ▸ Economic Policy and Business History
Economics	▸ Introduction to Economics ▸ Mathematics and Statistics	▸ Intermediate Economics ▸ Economy of Ireland ▸ Economics of Public Policy ▸ Mathematics and Statistics	▸ Economic Analysis ▸ Money and Banking ▸ European Economy ▸ Economics of Less Developed Countries ▸ Investment Analysis ▸ Economics of Policy Issues ▸ Industrial Economics ▸ Mathematical Economics ▸ Econometrics	▸ Economic Theory ▸ World Economy ▸ Development Economics ▸ Economics of Financial Markets ▸ Quantitative Methods ▸ International Economics ▸ Economic and Legal Aspects of Competition Policy ▸ Applied Economics
Political Science	▸ Introduction to Political Science	▸ History of Political Thought ▸ International Relations ▸ Comparative Politics	▸ Research Methods for Political Scientists ▸ Irish Politics ▸ Democracy and Development ▸ European Union Politics ▸ Representation and Public Opinion	▸ Contemporary Political Theories ▸ Issues in Contemporary Politics ▸ Contemporary International Relations ▸ African Politics ▸ Topics in Political Science ▸ Chinese Politics ▸ Research Seminar
Sociology	▸ Introduction to Sociology	▸ Gender, Work and Family ▸ European Societies ▸ Introduction to Social Research ▸ Power, State and Social Movements	▸ Social Theory ▸ Globalisation and Development ▸ Researching Society ▸ Race, Ethnicity and Identity ▸ Social Inequality	▸ Sociology Dissertation ▸ Economic Sociology of Europe ▸ Conflict Studies ▸ Digital Lives and Social Networks ▸ Migration
Complementary Modules	Choose one subject from: ▸ Law ▸ Social Policy ▸ Intro to Central, East European and Russian Area Studies ▸ Language (French, German, Spanish, Russian or Polish)	▸ Central Problems in Philosophy ▸ History of Philosophy ▸ Logic and Philosophy of Science ▸ Social Security Policy ▸ Health Policy ▸ Housing Policy ▸ Crime and Irish Society ▸ Children and Society ▸ Language ▸ Law ▸ Broad Curriculum (see page 19)	▸ Comparative Welfare States ▸ Crime and Social Policy ▸ Company Law ▸ Commercial Law ▸ International Law ▸ Information Systems (B.B.S. students)	▸ Poverty, Inequality and Redistribution

CHOOSING MODULES FOR THE SINGLE HONOUR DEGREE OPTION

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

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

CHOOSING MODULES FOR THE JOINT HONOUR DEGREE OPTIONS

Throughout years 2, 3 and 4, joint honour students take approximately 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, the joint honour programmes offer exceptionally high flexibility with regard to programme design and module choice.

ASSESSMENT

Most B.E.S.S. modules involve a system of continuous assessment, essays, projects and/or presentations contributing between 30% to 50% of the overall grade per module. The remainder is based on the results of a written end-of-year examination.

Study abroad and language options

First and second year B.E.S.S. students have the option to study French, German, Spanish, Russian or Polish.

Students also have the opportunity to study abroad in their third year at prestigious universities in countries such as France, Germany, Italy, Netherlands, Austria, Belgium or Spain, as well as English-speaking international exchange programmes to prestigious universities in Europe, North America, Australia and Asia (China, Hong Kong and Japan). Some of the more popular universities are Uppsala University, Sweden; Emory University, Georgia, Senshu University, Japan; IEP – Institut d'Études Politiques de Paris, France; QUT Queensland University of Technology, Brisbane, Australia and the University of Copenhagen, Denmark.

Careers and postgraduate opportunities

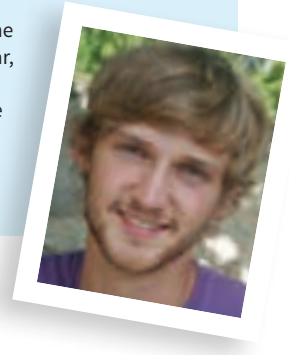
From a career perspective B.E.S.S. is an extremely flexible and practical degree programme. Graduates are also highly sought after by employers in a range of fields, such as in finance and banking, politics, research, management consulting, teaching, public service, journalism, within both national and international organizations within the profit, not for profit and public sector. Graduates have gone on to successful and rewarding careers in varied roles around the globe. The following are just a few examples of the organisations that have recruited B.E.S.S. graduates: Accenture, Alcatel, Cisco, Barclay's Bank, Commission for Energy Regulation, Enterprise Ireland, Google, KPMG, Microsoft, Morgan Stanley, Tesco, Topshop, Channel 4 and Atlantic Philanthropies.

In addition, many B.E.S.S. graduates have gone on to postgraduate study at leading universities around the world such as the London School of Economics, the University of Cambridge, the University of Edinburgh and the University of Warwick.

See: **www.tcd.ie/careers/students/degree** for further details.

Graduate Profile | **Peter Robert Gardner**

I was originally attracted to the B.E.S.S. programme because it would provide me with a broad base of subjects in first year, with modules in Economics, Sociology, Business, Political Science, and a choice between Law and a language, whilst allowing me to specialise in a single subject by fourth year.



FURTHER INFORMATION

www.tcd.ie/bess | Email: bess@tcd.ie | Tel: **+353 1 896 1840**

Business Studies and a Language (French, German, Russian, Polish or Spanish)

COURSE CODE	TR085: French (15 places, points 2014: 505) TR086: German (15 places, points 2014: 485*)
COURSE CODE	TR087: Russian (7 places, points 2014: 440) TR089: Polish (5 places, points 2014: 405)
COURSE CODE	TR090: Spanish (10 places, points 2014: 505)
DEGREE AWARDED	B.B.S. (Lang.)

What is Business Studies and a Language?

The programme offers an exciting way of learning about 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.

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 B.E.S.S. at a glance, page 34) 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).

Graduate Profile | **Daniel**

2003/4: Year Abroad	Studying at Koblenz Work placements with Deutsche Bank in Frankfurt and McKinsey in Hamburg
2004/5: Final Year in Trinity	Focused on Finance Final-year project: The German Corporate Governance System
2005-2007	Management Consultant with Oliver Wyman (Frankfurt)
2010	Trainee Solicitor with Freshfields
Career Objective	Corporate Law / International Taxation Policy

Why study Business Studies and a Language at Trinity?

The distinctiveness of Trinity's B.B.S. (Lang.) degrees centres on the following: (a) the business and language dimensions are integrated across all years of the programme, especially during the year abroad and in the final year; (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) in some cases students complete a work placement in the target culture in order to apply and develop their business and language skills in a professional setting.

What will you study?

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.

FIRST AND SECOND (FRESHMAN) YEARS

There are approximately 18-20 hours of lectures and tutorials per week, depending on which subject options are chosen. This time allocation 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

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	OC3/HD3	Mathematics (TR085, TR086, TR087, TR089 & TR090)
	HC1	French (TR085)
	HC1	German (TR086)
	HC3	In a language other than English (TR087 & TR089)
	HC1	Spanish (TR090)
GCSE	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)

RELATED COURSES

- TR017: Law and Business, page 88
- TR080: Bachelor in Business Studies, page 30
- TR034: Management Science and Information Systems Studies (M.S.I.S.S.), page 130
- TR081: B.E.S.S., page 32
- TR082: Computer Science and Business, page 126

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

THIRD AND FOURTH (SOPHISTER) YEARS

The third year is spent at a university or business school in the country of the language you are studying. Trinity 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 may be gained through a **work placement of approximately two months' duration**.

In 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.

Careers

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.

FURTHER INFORMATION

Course Office: **www.tcd.ie/business/bsl** | Email: courseoffice@tcd.ie | Tel: **+353 1 896 1840**
Business School: **www.tcd.ie/business/bsl** | Email: business@tcd.ie | Tel: **+353 1 896 3334**
BSL Director: **Dr. Domenico Campa** | Email: campad@tcd.ie | Tel: **+353 1 896 3775**
Business Studies and French: **Dr. Paule Salerno-O'Shea** | Email: psalerno@tcd.ie | Tel: **+353 1 896 1472**
Business Studies and German: **Dr. Joachim Kolb** | Email: KOLBJ@tcd.ie | Tel: **+353 1 896 1373**
Business Studies and Polish: **Ms. Aneta Stepien** | Email: stpeiena@tcd.ie | Tel: **+353 1 896 1291 / 896 1896**
Business Studies and Russian: **Dr. Dmitri Tsiskarashvili** | Email: dtsiskar@tcd.ie | Tel: **+353 1 896 2416 / 896 1896**
Business Studies and Spanish: **Dr. Susana Bayó Belenguer** | Email: bayobels@tcd.ie | Tel: **+353 1 896 3496 / 896 1257**
Visit us: If you are considering studying this course at Trinity, 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 Trinity Business School or the language department/s by email or phone (see above).

Classics

COURSE CODE	TR021
PLACES 2015	15
POINTS 2014	435
DEGREE AWARDED	B.A.

What is Classics?

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 from your first year; if you have not studied either Greek or Latin previously, you can start with one language in the first year and with the other in the second year.

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.

Why study Classics at Trinity?

Classics has been taught in Trinity since its foundation just over 400 years ago, and Trinity is unique in having professorships in both Greek and Latin. To study Greek and Roman civilisation is to study the roots of western civilisation, the origins of our political and cultural institutions, and to understand how the classical past has profoundly affected ideas and values in the contemporary world. Classics has a central role in understanding the formation of Mediterranean and European identities. It is, by its very nature, interdisciplinary, involving language and literary criticism, history, art history, archaeology, politics, philosophy and religion. The Department of Classics has a world-renowned reputation whose courses are taught by academics at the top of their fields. 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. It is also possible to study abroad for a semester or a whole year.

What will you study?

Over the four years you will read texts in a wide variety of types of literature, including epic poetry, drama, philosophy, history and letter writing. Whether you are continuing your language studies or taking up 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.

FIRST AND SECOND (FRESHMAN) YEARS

In first year you will be introduced to the critical study of ancient history, culture and literature. The language-based modules you take depend on whether you have studied both Greek and Latin before or are taking one or both languages as a beginner. Modules are taught by lectures and small-group seminars. There are twelve to fourteen contact hours per week. 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 will form the assessment for this course.

- Greek and Roman History
- Mythology and Religion

Greek for non-beginners

- Greek authors – text-based modules which 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.

Latin for non-beginners

- Latin authors – text-based modules 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

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

RELATED COURSES

TR001/TSM subjects:
- Ancient History and Archaeology, page 40
- Classical Civilisation, page 42
- Classical Languages, page 44

Greek or Latin for beginners

- Elementary Greek or Latin – an intensive introduction to the language. By the end of your first year of study 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 it before entering university. If you have studied neither Greek or Latin in second-level education you will begin the study of one ancient language in first year and the study of the other in second year.

THIRD AND FOURTH (SOPHISTER) YEARS

In third and fourth year 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 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 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 greater depth an area that particularly interests you.

Study abroad

The Department has valuable Erasmus links with the Universities of Cyprus, Edinburgh, Geneva, Bordeaux, Freiburg, and Koç (Turkey). Students are also able to avail of University-wide exchanges, for example, to North America and Australia. These opportunities allow students the option of spending a year or part of a year abroad.

Careers

Trinity has a long tradition of Classics graduates who have continued onto postgraduate study and successful academic careers both in Europe and America. A Classics degree offers positive advantages in the hunt for a job. Employers consistently express a preference for hiring outgoing, energetic, enterprising people who have learnt more from their degree than merely the details of the subject. Study of the ancient world develops skills of interpretation and communication that go far beyond a knowledge of books, dates and events. Our students find that their degree has been a real education and a source of continuing satisfaction to them, whatever job they go to after leaving us. Recent graduates have 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 | Email: classics@tcd.ie | Tel: **+353 1 896 1208** | **www.facebook.com/TrinityCollegeDublinClassics**

Ancient History and Archaeology

COURSE CODE	TR001 (TSM)
PLACES 2015	23
POINTS 2014	365*-555 (see page 29)
DEGREE AWARDED	B.A.

What is Ancient History and Archaeology?

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. All material is studied in translation and no knowledge of Greek or Latin is required, but there are opportunities to take introductory modules in the languages.

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.

Why study Ancient History and Archaeology at Trinity?

The Department of Classics has a world-renowned reputation. Its courses are taught by academics at the top of their fields. Ancient History and Archaeology offers you the opportunity to learn about the ancient world in a fun and friendly environment and learn not only about the past but also about its significance to the present. There are opportunities to participate in archaeological fieldwork in Ireland, the UK and the Mediterranean and in study tours to classical sites, for both credit and non-credit. 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. It is also possible to study abroad for a semester or a whole year.

Graduate Profile | **Aoife Condit**

The Department of Classics in Trinity was particularly attractive to me because I have always adored the campus. The content of the AHA programme has a good balance between documentary and archaeological sources. I found the seminars particularly enjoyable for informal discussion. Fourth year has been without a doubt my favourite year. This year, based around seminars instead of lectures and my own personal research for the thesis, has been more fun than I probably ever thought when leaving secondary school. I would give credit for this not only to the opportunity of having this year within our undergraduate degree but also to the professionalism and enthusiasm displayed by the staff for their subjects.

What will you study?

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. In these modules, you will explore not only the Greek and Roman worlds specifically but also their relationships with neighbouring cultures, such as Egypt and the Near East, and their place within the Mediterranean and beyond. 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 to assess your progress, and a thesis is written in the final year.

FIRST (JUNIOR FRESHMAN) YEAR

In first year you will take three modules which give you a solid introduction to the Greek and Roman worlds and to the skills and approaches of the two disciplines. There are approximately six hours of classes in the first year.

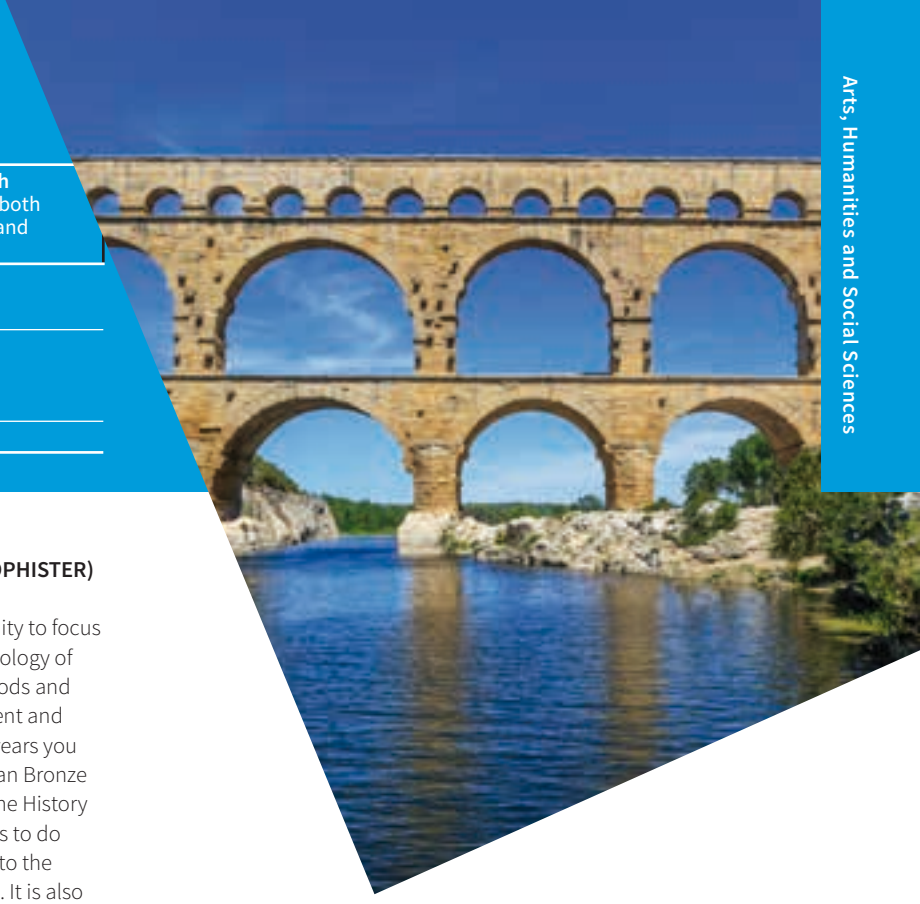
- Greek and Roman History
- Greek and Roman Art
- Sources and Methods in History and Archaeology

Ancient History and Archaeology must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with Ancient History and Archaeology see page 28.

RELATED COURSES

TR001/TSM subjects:
- Classical Civilisation, page 42
- Classical Languages, page 44

TR021: Classics, page 38



SECOND (SENIOR FRESHMAN) AND THIRD (JUNIOR SOPHISTER) YEARS

Modules 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 the 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 module in these years. It is also possible to take introductory modules in Greek or Latin.

FOURTH (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. Modules 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 dissertation on a subject of your choice. This is an opportunity to carry out research which will allow you to develop independent ideas and acquire critical skills while investigating in greater depth an area that particularly interests you.

Study abroad

Trinity has strong links with many Classics departments abroad, including active participation in the Erasmus exchange programme. The Department has valuable Erasmus links with the Universities of Cyprus, Edinburgh, Geneva, Bordeaux, Freiburg, and Koç (Turkey). Students are also able to avail of University-wide exchanges, for example, to North America and Australia. These opportunities allow students the option of spending a year or part of a year abroad.

Careers

Recent graduates have entered many fields including archaeology, archaeological consultancy in Ireland and the UK, heritage and museum work (for example the National Museum of Ireland), art restoration, teaching and higher education policy, publishing, business, computing, accountancy, government and social work. Recent graduates are working for companies as diverse as McKinsey and Co and Cambridge University Press. 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

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Classical Civilisation

COURSE CODE	TR001 (TSM)
PLACES 2015	29
POINTS 2014	385*-555 (see page 29)
DEGREE AWARDED	B.A.

What is Classical Civilisation?

The study of Classical Civilisation is concerned with the literature, thought 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, but there are opportunities to study the languages at an introductory level.

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 may be the course for you.

Why study Classical Civilisation at Trinity?

The Department of Classics has a world-renowned reputation and courses are taught by academics at the top of their fields. Classical Civilisation offers you the opportunity to learn about the ancient world in a fun and friendly environment and learn not only about the past but also about its significance to the present. There are opportunities to participate in study tours and summer schools to classical sites for non-credit. The course is taught through a mixture of lectures and small-group seminars, which encourage lively discussion and the development of independent thinking. It is also possible to study abroad for a semester or a whole year.

What will you study?

Over the four years you will develop a broad understanding of the classical world, primarily through its literature. You will move from introductory modules in history and art 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 modules are taught by lectures and small-group seminars. 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 to assess your progress, and a thesis is written in the final year.

FIRST (JUNIOR FRESHMAN) YEAR

In first year you will be introduced to the critical study of ancient history, art and architecture, myth and religion, with a view to acquiring a comprehensive and interdisciplinary perspective on classical culture. There are approximately six hours of classes in first year. There is the option of taking an introductory module in either Greek or Latin.

- Greek and Roman History
- Greek and Roman Art and Architecture
- Greek and Roman Mythology and Religion

SECOND (SENIOR FRESHMAN) AND THIRD (JUNIOR SOPHISTER) YEARS

In each of these two years you will take four or five modules 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 modules 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. It is possible to take options which will provide an introduction to Greek or Latin. All the modules are taught through 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.

FOURTH (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. Modules 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.

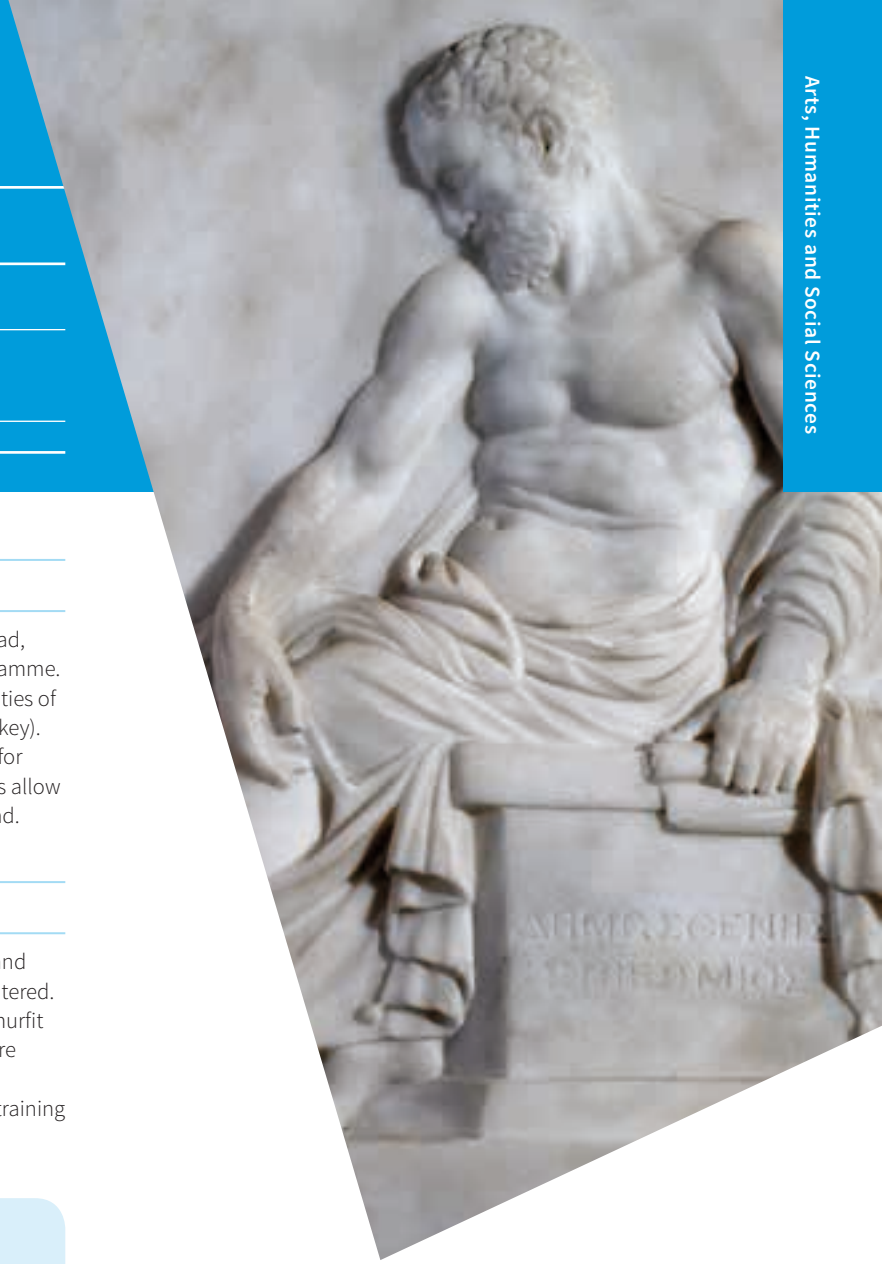
You will also write a thesis on a subject of your choice. This is an opportunity to do research which will allow you to develop independent ideas and acquire critical skills while investigating in greater depth an area that particularly interests you.

Classical Civilisation must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with Classical Civilisation see page 28.

RELATED COURSES

TR001/TSM subjects:
- Ancient History and Archaeology, page 40
- Classical Languages, page 44

TR021: Classics, page 38



Study abroad

Trinity has strong links with many Classics departments abroad, including active participation in the Erasmus exchange programme. The Department has valuable Erasmus links with the Universities of Cyprus, Edinburgh, Geneva, Bordeaux, Freiburg, and Koç (Turkey). Students are also able to avail of University-wide exchanges, for example, to North America and Australia. These opportunities allow students the option of spending a year or part of a year abroad.

Careers

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

Graduate Profile | **Kate Higgs, Solicitor and European Trade Mark Attorney at Whitney Moore Solicitors**

It can take students coming out of the Leaving Certificate system a year or two to fully comprehend the idea of independent thought and research. But by the final year of Trinity's TSM Classical Civilisation programme, you are equipped with the necessary skill-set to tackle serious research questions in your dissertation work and in fourth year modules. Here you confront issues at the forefront of research in each lecturer's area of expertise, exploring ancient culture in new ways and revealing how ancient concepts and perspectives still contribute to the way we approach the world today.

FURTHER INFORMATION

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Classical Languages
(new for 2016)

COURSE CODE	TR001 (TSM)
PLACES 2015	16
POINTS 2014	n/a
DEGREE AWARDED	B.A.

What is Classical Languages?

The study of Classical Languages is concerned with the language, literature and thought of either Ancient Greece or Ancient Rome. You will choose to study either Greek or Latin. Through the reading of literature in the original language 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.

Why study Classical Languages at Trinity?

Greek and Latin have been taught in Trinity since its foundation just over 400 years ago, and Trinity is unique in having professorships in both Greek and Latin. To study Greek and Roman civilisation is to study the roots of western civilisation, the origins of our political and cultural institutions, and to understand how the classical past has profoundly affected ideas and values in the contemporary world. The Department of Classics has a world-renowned reputation. Its courses are taught by academics at the top of their fields. 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. It is also possible to study abroad for a semester or a whole year.

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 one of the civilisations that shaped the Western world, you will enjoy this course.

Graduate Profile | **Charlie Kerrigan**

The great thing about Latin is that it's so many different things. The department was both very friendly and full of superb academics. Language skills are developed and kept up to scratch from day one, and if that's not enough there are large-scale Greek/Roman history and Classical Civilisation lectures, as well as the Classical Society, whose social antics and trips abroad may well be a highlight of your time here. By the end of your degree you'll be armed with an exciting and varied skill-set to take into your future career, whatever it may be.

What will you study?

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/Latin as a beginner, you will engage with ancient texts both as literature and as a gateway into the culture and thought of ancient Greece/Rome. 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.

FIRST AND SECOND (FRESHMAN) YEARS

In first year you will be introduced to the critical study of ancient history, culture and literature. The language-based modules you take depend on whether you have studied Greek/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 second year you continue the study of Greek/Latin language, literature and history. Modules are taught by lectures and small-group seminars. There are six to eight contact hours per week. 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 forms the assessment.

- **Greek and Roman History**
- **Greek and Roman Mythology and Religion**
- **Sources and Methods in History and Archaeology**

Ancient Greek/Latin for beginners

- **Elementary Greek/Latin** – an intensive introduction to the Ancient Greek or 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 it before entering university.

Ancient Greek/Latin for non-beginners

- **Greek/Latin authors** – text-based courses introduce you to the critical reading of Greek/Latin literature through a close examination and contextualisation of the oldest and most influential works in western literature. Greek texts include Homer's Iliad and Odyssey, the Histories of Herodotus, the tragedies of Euripides and Sophocles and the philosophical prose of Plato. Latin 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.
- **Greek/Latin language**

SPECIAL ENTRY REQUIREMENTS

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

Classical Languages must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with Classical Languages see page 28.

RELATED COURSE

TR021: Classics, page 38

THIRD AND FOURTH (SOPHISTER) YEARS

In third and fourth years you will progress to an in-depth study of topics in Greek/Latin 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, Didactic poetry, Latin historians, Roman satire, and Latin orators. In third year, you will continue to study ancient history, while separate advanced language classes provide additional assistance in improving your fluency and accuracy in reading and interpretation. In 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.

Study abroad

Trinity has strong links with many Classics departments abroad, including active participation in the Erasmus exchange programme. The Department has valuable Erasmus links with the Universities of Cyprus, Edinburgh, Geneva, Bordeaux, Freiburg, and Koç (Turkey). Students are also able to avail of University-wide exchanges, for example, to North America and Australia. These opportunities allow students the option of spending a year or part of a year abroad.

Careers

Study of the ancient world develops skills of interpretation and communication that go far beyond a knowledge of books, dates and events; these skills offer positive advantages in the hunt for a job. Recent graduates are working in many fields including, the diplomatic service, the civil service, banking and accountancy, business, computers, journalism and broadcasting, law, librarianship, publishing, teaching and theatre. Some graduates opt to pursue an academic career with postgraduate study in Ireland and abroad.

FURTHER INFORMATION

www.tcd.ie/classics | Email: classics@tcd.ie | Tel: **+353 1 896 1208** | **www.facebook.com/TrinityCollegeDublinClassics**

Clinical Speech and Language Studies

COURSE CODE	TR007
PLACES 2015	34
POINTS 2014	525*
DEGREE AWARDED	B.Sc. (Clin. Lang.)

What is Clinical Speech and Language Studies?

Speech and Language Therapists (SLTs) enable people with communication and/or swallowing difficulties to achieve their maximum potential.

Communication difficulties can occur at any stage in a person's life. SLTs commonly work with children and adults who may have difficulties in speech, language, voice, or swallowing due to developmental delays/disorders or adult-onset conditions (e.g. stroke, dementia). SLTs also work with people with communication (and/or swallowing) difficulties associated with physical impairments (e.g. cerebral palsy), learning difficulties (e.g. intellectual impairment) or mental health disorders. They frequently work as part of a team (including, e.g. a psychologist, a doctor, an occupational therapist, or social worker) and work in a variety of settings, including hospitals, community settings, schools, or in specialist clinics.

Is this the right course for you?

This course will appeal to you if (i) you have an interest in how speech, language, communication and swallowing works and how these areas may be affected due to developmental delays or acquired impairments, and (ii) you have an interest in areas such as psychology, linguistics, biomedical sciences and speech and language disorders. While an interest in science and language is important, it is critical that you are people-oriented, highly motivated and are open to a collaborative problem solving approach to learning. Visiting a Speech and Language Therapist at work is a good way to find out whether this is the profession for you.

Why study Clinical Speech and Language Studies at Trinity?

The Department of Clinical Speech and Language Studies in Trinity is the longest established accredited undergraduate programme in speech and language therapy in Ireland. Staff who are involved in the delivery of this course, enjoy national and international recognition in teaching and research, being experts in their respective fields of linguistics, psychology, and speech and language pathology. Students who are engaged in this programme of study are provided with the opportunity to engage in a stimulating and exciting curriculum addressing the many facets of this area of study. Graduates from this course have become pioneers in their areas of clinical expertise, and continue to develop the subject area through high quality research and innovation.

What will you study?

THEORETICAL COMPONENT

Major theoretical components include linguistics, psychology, biomedical sciences and speech and language pathology. Teaching and learning methods include lectures, tutorials, workshops, and case-based learning, as well as small group teaching to address learning goals, incorporating aspects of problem-based learning. At all stages of the course, you will take part in problem-based learning which provides students with carefully-designed, structured problems to meet learning needs. Students work individually and in small groups to research how to 'solve' or address the problem (termed the 'problem resolution'). The theoretical component of the course is assessed in a variety of ways, including continuous assessment and end-of-year exams.

CLINICAL PRACTICE

Clinical activities and placements provide an important learning context from the start of the course. The department has access to a wide range of settings in which to place students (e.g. hospitals, schools, clinics, rehabilitation centres), to ensure that students are exposed to many clinical contexts during their education. During term time, an average of one day per week is reserved for clinical work which takes a variety of forms, including on- or off-site clinical placements, practicals and workshops. Principles and approaches to clinical work are also covered in lectures. You will also be required to undertake clinical practice outside term time in some years of the course. All clinical work is evaluated and assessed.

FIRST AND SECOND (FRESHMAN) YEARS

In first year, you will be introduced to the areas of language acquisition, speech sciences, human development and biomedical sciences (e.g. anatomy and physiology). These courses are a foundation for later years of study, and include modules in Clinical Practice, Speech and Hearing Sciences, Linguistics, Phonetics (the study of vocal sounds), Psychology, Anatomy (the study of the structure of the human body) and Physiology (the study of how the body works). Also, in year 1 you will get the opportunity to meet with people who have communication difficulties, in preparation for future clinical work.

In second year, you will learn about the nature and assessment of disorders of speech, language, communication and swallowing and you will learn about frameworks and tools for evaluating abilities and skills in each of these areas. You will also take modules in Speech Sciences, Linguistics, and Cognitive and Neuropsychology. Also, in year 2, you begin some clinical placements.

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

See precautions against infectious diseases, page 219.

Students will be required to undergo Garda vetting, see page 219 for further details.

Note: There may be additional costs for students related to travel and clinical materials during clinical placements.

SPECIAL ENTRY REQUIREMENTS

GCSE	Grade C	Mathematics
In addition:		
Either		
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
Or		
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

THIRD AND FOURTH (SOPHISTER) YEARS

In third and fourth years, the theoretical component of the course focuses on therapy approaches and overall clinical management of clients attending SLT services. You also continue to study aspects of Psychology (e.g. Counselling), Neurology, Psychiatry, Linguistics and Ethics. Additionally, in years 3 and 4 you learn about Research Methods, with an opportunity to conduct your own research project on some aspect of human communication. In your final year, you get to write up this project as a dissertation.

The clinical component takes on greater significance in the final two years of the course. By the end of the fourth year, you will be expected to participate fully in assessment and diagnosis of a range of clinical presentations, and engage in therapy planning and implementation. Clinical work is supervised by practice educators, with students learning the skills of self-evaluation and reflection during the supervision process.

Careers

On graduation, your qualification from Trinity is recognised as a licence to practise as a Speech and Language Therapist in Ireland. Those holding the degree are eligible to apply for statutory registration with CORU and 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 UK 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: **http://sac-oac.ca/**

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

Student Profile | Heidi Kavanagh

I had trouble filling out the CAO form because I had such a wide range of interests, but Clinical Speech and Language Studies is so impressively diverse, it has allowed me to explore almost all of them. Whether it's working with children or older people, in a school or in a hospital, moving from lectures about sign language or psychology, to working with donor bodies in anatomy, there's never been a dull day. Trinity has opened a whole new world for me, with its vibrant community and passionate lecturers.

FURTHER INFORMATION

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

Deaf Studies

COURSE CODE	TR016
PLACES 2015	20
POINTS 2014	400
DEGREE AWARDED	Bachelor in Deaf Studies (B.St.Su.)

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.

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.

Why study Deaf Studies at Trinity?

Trinity is the only university on the island of Ireland offering a Deaf Studies programme. 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. Irish Sign Language (ISL) 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 recognised in Northern Ireland.

What will you study?

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 two and three, optional 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. For all students in the third and fourth years, there is a research project, which culminates in a dissertation.

LANGUAGE COMPONENT

Across the four years of the degree you will develop a high level of competency in ISL skills. 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 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

Students can also select one course from the Broad Curriculum in both years one and two (see page 19). In year 3, students may consider spending a term abroad as a visiting student.

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 and were awarded their Diploma prior to 2011

Students will be required to undergo Garda vetting, see page 219 for further details.

PRACTICE COMPONENT

Practical components are introduced in third year and will include **block placements with organisations**. These will include a twelve-week block placement in third 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). 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.

Careers

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.

Graduate Profile | Annik Dennehy

Studying Deaf Studies was one of the best decisions I have ever made. I wasn't sure I would get through, but with the dedicated support of the lecturers and fellow students I came away really happy with what I had achieved. I am currently working full time as an interpreter in Cork. I work in a variety of settings where I am gaining valuable experience and work alongside fellow interpreters who previously qualified through the CDS (Centre for Deaf Studies). I plan to return to do a postgraduate MSc in Developmental Linguistics.

FURTHER INFORMATION

www.tcd.ie/slscs/cds | Email: cdsinfo@tcd.ie | Tel: **+353 830 1560**

Centre for Deaf Studies, School of Linguistic, Speech and Communication Sciences, Trinity College Dublin, the University of Dublin.

Drama and Theatre Studies and Drama Studies

COURSE CODE	TR025	TR001 (TSM)
PLACES 2015	17	24
POINTS 2014	440	400-555 (see page 29)
DEGREE AWARDED	B.A.	

Drama and Theatre Studies (single honour) – 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 honour students there are approximately 14 hours per week of classes plus rehearsals.

Drama Studies (TSM joint honours) – 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 honour 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.

Why study Drama at Trinity?

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

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

Contemporary playwrights, directors, actors and designers often visit Trinity to discuss their work and give workshops or courses. In past 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.

What will you study?

Both these courses enable you to explore the relationship between the theory and the practice of theatre and 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.

FIRST AND SECOND (FRESHMAN) YEARS

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, delivered in parallel modules on Theatre History – from the Greeks to the present – and Performance Studies – including attention to theoretical approaches like semiotics, feminism, postmodernism, and documentary theatre among many others. Single honour 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) as well as Contextual Studies. These practical courses run through both first and second years.

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

THIRD AND FOURTH (SOPHISTER) YEARS

Third and fourth year 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 honour students are treated equally in third year (meaning there is no prioritisation), with TSM students taking half the number of courses required of single honour students. In fourth year, there is no difference in curriculum between single honour students and TSM students who major in Drama.

TSM points: See page 29

This is a restricted entry course. Applications must be submitted by 1 February 2016.

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.

TR001 – Drama Studies must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with Drama Studies see page 28.

TR025 – Drama and Theatre Studies is a single honour course where Drama and Theatre Studies is read almost exclusively for four years.

RELATED COURSES

Acting, page 52
Diploma in Acting and Theatre, page 54
Stage Management and Technical Theatre, page 55

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 may include 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, 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 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).

Careers

Most graduates of both the single honour 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**

Bachelor in Acting

PLACES 2015:	16
DEGREE AWARDED:	Bachelor in Acting (Hons.)

What is the Bachelor in 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 enables students to learn by doing. **The UK and Ireland's leading theatre practitioners form the core panel of teachers within The Lir theatre at Trinity 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, 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 theatre at Trinity 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.

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 the Diploma in Acting and Theatre at The Lir, Drama Studies or Drama and Theatre studies (see pages 54 and 50).

Why study acting at The Lir Academy?

The Lir was developed by the partnership of the Cathal Ryan Trust and Trinity 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.

SPECIAL ENTRY REQUIREMENTS

This is a restricted entry course. Applications must be submitted by 1 February 2016.

This course is taught by The Lir National Academy of Dramatic Art at Trinity. **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 2016 however, applicants are encouraged to apply from November onwards.** Auditions will be held between December 2015 and March 2016

RELATED COURSES

TR001 Drama Studies, page 50
TR025 Drama and Theatre Studies, page 50
Diploma in Acting and Theatre, page 54
Stage Management and Technical Theatre, page 55

The training offered by The Lir **takes place in a custom built building at Grand Canal Quay**, 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 of 70, a dance studio, technical workshop, 3 rehearsal studios and a range of flexible teaching spaces to suit the training of The Lir's young theatre practitioners.

What will you study?

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. In the third and final year of the course **students will be cast in at least 5 productions, 1 short film and an audition showcase (in Dublin and London) over the course of the year which are performed in front of agents, directors, producers and the general public**.

FIRST AND SECOND (FRESHMAN) YEARS

Students in the first two years of the course take compulsory modules in Acting and 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 second year, students will combine all the skills developed over the two years of training in their first ensemble production to an invited audience.

THIRD AND FINAL (SOPHISTER) 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 7-day period and will play to invited agents, directors, producers, as well as the general public. Students will also 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 in both Dublin and London before an invited audience of agents and directors.

Assessment in the first and second years is based entirely on a series of practical class presentations in all modules. In third year, assessment is by a series of public performances.

Careers

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.

Student Profile | **Vanessa Emme**

Student life at The Lir is a rich one where you are exposed to all facets of the dramatic arts. One of the many highlights is how closely students work with and learn from professionals within the theatre and film industry.
Upon graduating from The Lir Academy at Trinity, I travelled to London and was lucky enough to go straight into rehearsal for a production for the prestigious Chichester Festival and Shakespeare's Globe Theatre. I can say, with complete confidence, that I would not have had the amazing opportunities thus far had I not trained at The Lir.

FURTHER INFORMATION

www.thelir.ie | View **"The Lir"** on Facebook and Twitter, Linkedin and Instagram | Tel: **+353 1 896 2559**

Diploma in Acting and Theatre (non-CAO)

PLACES 2015:	16
AWARD:	Diploma

SPECIAL ENTRY REQUIREMENTS

This is a restricted entry course. Applications must be submitted by 1 February 2016.

This course is taught by The Lir National Academy of Dramatic Art at Trinity. **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 one more round of auditions at which voice, movement and group skills will be assessed. **Auditions will be held between December 2015 and March 2016.**

RELATED COURSES

TR001: Drama Studies, page 50

TR025: Drama and Theatre Studies, page 50

Acting, page 52

Stage Management and Technical Theatre, page 55

Diploma in Acting and Theatre

The foundation course is aimed primarily at school leavers who are interested in preparing themselves for three-year actor training at conservatoire level, either at The Lir or a similar academy. With an additional focus on broadening students' reading and understanding of plays and theatre history, it also prepares students for broader drama degrees and related areas of study and work. The course is taught by a committed team of teachers, including many of The Lir's core acting tutors and teachers from our Master of Fine Art programmes. The personal development of students is enhanced by regular individual tutorials with the course director, a dedicated member of staff who supervises all aspects of the programme.

The course also encourages students to develop their own individual creativity with a focus on collaboration, improvisation and lateral thinking.

This course is an NFQ Level 7 Diploma.

Course overview

This course runs for 24 weeks. It is divided into three eight week modules each of which culminates in an intensive week of rehearsals and project based work.

Classes will take place from Monday to Friday, 6 hours per day and will cover the core subjects of acting, voice and movement as well as physical theatre, dance, text analysis, choral singing, acting for screen, theatre history, audition technique classes and professional development with a focus on career progression.

Assessment is based on a series of practical class presentations in all modules.

Careers

The course is specifically designed to prepare students for drama/acting degrees and related areas of study and work within the theatre, TV and film industries.

All the training is provided by dedicated theatre professionals with strong industry links.

Student Profile | **Niamh Whelan**

The Lir Diploma in Acting and Theatre was brilliant in helping me make my mind up on what I wanted to do. During the year I improved my skills in acting technique, voice and movement and learned new skills in devising, creative engagement and choral singing. I participated in practical theatre classes which were a catalyst to me applying for and being offered a place on the Professional Diploma in Stage Management and Technical Theatre, which I would not have considered before attending the foundation course. I would highly recommend this course to anyone considering a career in the industry.

FURTHER INFORMATION

www.thelir.ie | View **The Lir** on Facebook, Twitter, Linkedin and Instagram | Tel: **+353 1 896 2559**

Stage Management and Technical Theatre (non-CAO)

PLACES 2015:	16
AWARD:	Professional Diploma

SPECIAL ENTRY REQUIREMENTS

This is a restricted entry course. Applications must be submitted by 1 February 2016.

This course is taught by The Lir National Academy of Dramatic Art at Trinity. **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, festival, concert or other relevant experience to date. The final date for receipt of applications is 1 February 2016. Interviews will be held between February and April 2016.

RELATED COURSES

TR001: Drama Studies, page 50
TR025: Drama and Theatre Studies, page 50
Acting, page 52
Diploma in Acting and Theatre, page 54

Stage Management and Technical Theatre

This **two year, level 8 course** offers practice based training to students who are interested in a career in professional theatre, TV and film. Training as a stage manager and theatre technician is taught through the development of skills, hands-on training during in-house productions, work placements in professional theatres and creative approaches to theatre productions

Is this the right course for you?

Students who undertake this course will need to have experience in working behind stage in a theatre, at a festival, a concert or an organised event. A keen interest in stage management, lighting, sound, construction, prop making, costume or set design is a distinct advantage. This is an intensive course requiring a commitment on average of 35 hours per week, 38 weeks per year.

What will you study?

The course is specifically designed to train technical staff for the theatre and related professions. Through a series of skills-based courses in stagecraft and construction, lighting and sound, properties and propping, stage/production/technical management, film and television, health and 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 and costume design, will complement the skills-based courses in their analysis of historical periods, styles, forms, conventions and practices. All teaching will be provided by dedicated and experienced theatre technicians and stage managers and will reflect best practice in professional theatre.

ASSESSMENT

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

Careers

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.

Student Profile | **Conor Sweeney**

From working with leading industry professionals on in-house productions to amazing work placements in Ireland's principal venues and entertainment companies, there was always something exciting and new to look forward to when studying at The Lir. The Stage Management and Technical Theatre course opened the door to the TV and theatre industries for me and I have no doubt that the wide range of subjects and the practical aspect of the teaching helped me to achieve a fantastic start to my career. The friends I made and relationships I built during my time at The Lir have been invaluable.

FURTHER INFORMATION

www.thelir.ie | View **The Lir** on Facebook, Twitter, Linkedin and Instagram | Tel: **+353 1 896 2559**

Economics

COURSE CODE:	TR001 (TSM)
PLACES 2015:	43
POINTS 2014:	480*-570* (see page 28)
DEGREE AWARDED:	B.A.

Economics must be combined with one other TSM subject.
An honours degree is awarded in both subjects. For subjects that combine with Economics see page 28.

What is Economics?

Economic issues dominate the news headlines and have an impact on the lives of individuals and countries. What determines economic growth? Why do financial crises occur? Why are some countries poor, while others enjoy high living standards? Why do some people earn so much more than others? Is it possible to pursue economic growth and still protect the environment? Questions such as these, which explore the material well-being of humankind, are at the heart of the study of economics.

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.

Is this the right course for you?

Economics will appeal to students with a wide range of interests. If you are interested in current economic affairs or in understanding how public policies could lower unemployment or assist the developing world, then you will find studying economics both stimulating and rewarding. Economics is also a strong platform for careers in business and finance. Students who enjoy abstract thinking, and are evaluating courses such as engineering or physics, should also consider economics as a degree option.

Graduate Profile | **Debbie Blair**

Studying Economics via the TSM route allows you to jointly study two very different subjects. This augmented my learning experience through learning to look at and analyse the world around me from two different perspectives, using different skillsets and methodologies. I combined Economics with Psychology, majoring in Economics in my final year and now am in the last year of the MPhil in Economics in the University of Oxford.

Why study Economics at Trinity?

In the 2015 QS rankings Trinity was ranked in the top 150 universities in the world for Economics and Econometrics.

The Department places considerable emphasis on providing a supportive and stimulating teaching environment for all students. In addition to lectures, which are given by highly qualified academic staff with an international reputation, the Department facilitates learning through interested approachable staff, small tutorial groups, student presentations and involvement, teaching assistants assigned to many courses, time set aside each week by all staff and teaching assistants to deal with any student difficulties on a one-to-one basis and involvement in societies and debates and in the publication of the 'Student Economic Review', allowing students to gain valuable experience.

What will you study?

Most of the teaching takes place at lecture level and is complemented by tutorials (small group teaching).

In the first two years, teaching emphasises the understanding of the basic principles of economics and the acquisition of the quantitative and analytical skills necessary for more in-depth study. The student will also receive instruction on how the modern economy works both from an Irish and a global perspective. In third and fourth year, there are very few compulsory courses. Students are therefore able to construct their own programme from a wide range of options.

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 fourth and final year so as to facilitate time for more independent work. Project work is a very important component of almost all courses within the final year; this project work allows students to achieve a very high level of expertise in a number of specific areas and is very beneficial to students when setting out on their career paths. In addition, students specialising exclusively in economics in fourth year may choose to complete a dissertation on a chosen topic.

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

RELATED COURSES

TR015: P.P.E.S., page 98
TR081: B.E.S.S., page 32

FIRST (JUNIOR FRESHMAN) YEAR
Introduction to Economics, Mathematics and Statistics, Introduction to Economic Policy and a selection of optional modules.

SECOND (SENIOR FRESHMAN) YEAR
Intermediate Economics, Economy of Ireland, Economics of Public Policy, Mathematical and Statistical Methods.

THIRD AND FOURTH (SOPHISTER) YEARS
Some of the modules which may be available to study are:
Economics Analysis; Money and Banking; European Economy; Economics of Less Developed Countries; Investment Analysis; Economics of Policy Issues; Industrial Economics: Competition, Strategy and Policy; Mathematical Economics; Econometrics; Economic Theory; World Economy; Development Economics; Economics of Financial Markets; International Economics; Economic and Legal Aspects of Competition Policy; Applied Economics.

The Department of Economics is committed to making available the option of taking a module from outside its discipline, under the Broad Curriculum programme, see page 19.

If you would like more detailed information on all the modules offered, see: **www.tcd.ie/economics/undergraduate/tsm/modules**

Study abroad

Students have the opportunity to spend some time in their third year studying in distinguished 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.

Further information on the year abroad programme, and a list of partner universities, can be found at: **www.tcd.ie/economics/undergraduate/exchange-programmes**

Careers

Economics students develop exceptional logical reasoning and analytical skills which are highly sought after by employers in a range of fields including business, finance, journalism, law, politics, the public service and academia.

The following are just a few examples of the diverse organisations where Economics graduates work:

- Central Bank of Ireland
- Citigroup
- Goldman Sachs
- JP Morgan
- Maersk
- Google
- Credit Suisse
- Wolfhound Press
- Dublin Web Summit
- Irish Life
- Abbott
- Accenture
- KPMG
- Morgan Stanley

About a third of Economics graduates go on to postgraduate study, both at Trinity and at other leading universities around the world such as Stanford, Oxford, Cambridge and the London School of Economics.

FURTHER INFORMATION

www.tcd.ie/economics | Tel: +353 1 896 1043 | Student profiles: see: **www.tcd.ie/economics/undergraduate/testimonials**

English Literature and English Studies

COURSE CODES:	TR023	TR001 (TSM)
PLACES 2015:	40	85
POINTS 2014:	500*	520*-570* (see page 29)
DEGREE AWARDED:	B.A.	B.A.

What is English?

Students have the option of studying either English Studies (single honour) or English Literature (Two Subject Moderatorship).

English Studies (single honour) – 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 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) and they also cover a longer historical range, including literature from before 1400.

English Literature (TSM joint honours) – 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 honour programme, with less emphasis on the development of genres, and a greater concentration on the modern period (post-1400).

Student Profile | **Claudio Sansone**

English at Trinity has been everything I hoped it would be. The combination of seminars, lectures and tutorials creates a dynamic environment and lets you interact with a great mix of people. The staff are always willing to help, whether giving academic advice or just making you feel at home if you've come from far away.

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. If you are interested in English Literature in conjunction with another field (such as History or Philosophy), TSM is probably the best option for you; conversely, if your primary interest in English, you might consider English Studies.

Why study English at Trinity?

Trinity is ranked 32nd in the world for English Language and Literature (QS World University Rankings by Subject 2015).

Our commitment to small-group teaching means that you will benefit from close personal staff supervision, so that your writing and discussion skills develop.

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 one of the world's great libraries, with rich resources in the full range of literature in English.

The School of English also co-ordinates 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 Paula Meehan, the Ireland Professor of Poetry) and visiting writers including Richard Ford, the Pulitzer prizewinning author.

The School actively supports several journals of creative and critical writing by undergraduates. Many of our students are involved in student societies, where they take part in activities such as journalism, debating and theatre. In this way we ensure that your time studying English at Trinity is exciting and intense.

What will you study?

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. After the first two years, students are free to construct their own course in the advanced work that will lead to their degree.

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 honour course where English is read almost exclusively for four years.

TR001 – English Literature must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with English Literature see page 28.

FIRST AND SECOND (FRESHMAN) YEARS

Over the first and second year a range of modules provides 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 may include:

- Poetry
- Irish Writing
- Introduction to Literary Studies
- American Literature
- Fiction
- The Beginnings of English Poetry
- Study of a Single Author
- Shakespeare
- Postcolonial Literature
- Middle English

THIRD AND FOURTH (SOPHISTER) YEARS

In the 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 in small-group seminars.

Examples of Sophister modules may include:

- Creative Writing
- Ulysses in Contexts
- African and Caribbean Literature
- Irish Crime Fiction
- Global Shakespeare
- Modernism
- American Writing
- Children's Literature
- Popular Literature
- Community and Contemporary Irish Literature
- Art Writing
- History of the English Language
- Dissertation

ASSESSMENT

Assessment is by a combination of submitted essays, journals, dissertation and end-of-year examinations. In first and second year the weighting is approximately 50% submitted work and 50% final examinations. In third and fourth year it may vary depending on the modules chosen, although submission of a dissertation is compulsory for all final year students.

Study abroad

Students in the School of English may apply to study abroad on the Erasmus programme in Europe or on an exchange in the U.S., Australia, Canada, Singapore and China during their third year. For more information on study abroad destinations and requirements visit: **www.tcd.ie/study/non-eu/study-abroad**

Careers

Trinity's School of English graduates gain leading roles in intellectual, professional and public life. The skills developed by students of English are in high demand from employers, especially in journalism, broadcasting, teaching, advertising, marketing and business, arts management, publishing, law and diplomacy.

Recent graduates work in Google, the Irish Times, the Department of Foreign Affairs, RTÉ and PwC.

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 English graduates, including Eavan Boland, Deirdre Madden, Michael Longley, John Connolly, Derek Mahon, Brendan Kennelly, Anne Enright and Paula Meehan.

FURTHER INFORMATION

Visit us: If you are considering studying for an English degree at Trinity but want to be sure, you are most welcome to attend first and second year lectures. If you would like to avail of this opportunity, please contact us by email to arrange a visit.
www.tcd.ie/English | Email: english@tcd.ie | Tel: **+353 1 896 1111 / 2301 / 1839**

European Studies

COURSE CODE:	TR024
PLACES 2015:	45
POINTS 2014:	520*
DEGREE AWARDED:	B.A.

RELATED COURSES

TR001: TSM, page 28

What is European Studies?

European Studies is a broad-ranging and integrated programme that offers students the chance to learn European languages, and also to study history, political science, sociology, and economics. This programme encourages students to think about our Continent in all its complexity, and to analyse Europe's cultures, literature, and politics.

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 designed for students with a broad intellectual appetite and who are interested in a range of disciplines and subjects.

Why study European Studies at Trinity?

European studies at Trinity offers a unique and broad range of languages and subjects for study and draws on the expertise and dedication of lecturers from a range of subjects. Staff from different departments work together to deliver a fully-integrated programme that offers flexibility and choice for students. European Studies attracts students with strong potential from Ireland and abroad. Trinity is ranked in the top 50 in the world for Modern Languages, Political Science and History (QS World University Rankings by Subject 2015).

What will you study?

You will study two out of six available 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. As well as languages, you will study European History, the History of Ideas, and Social Sciences (Politics, Economics, and Sociology). Assessment is conducted through a mixture of course-work and examinations.

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:

SPECIAL ENTRY REQUIREMENTS		
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 224.

FIRST (JUNIOR FRESHMAN) YEAR
In first year, students study their two chosen languages. They also study European History (1500-1800), An Introduction to the History of Ideas, and An Introduction to Social Science.

SECOND (SENIOR FRESHMAN) YEAR
In second year, students continue to study their two chosen languages. They also study European History (1800-), The Making of Modernity (1750-1820) and can choose from options in history, politics, sociology and economics.

THIRD (JUNIOR SOPHISTER) YEAR – STUDY ABROAD
The Junior Sophister year is spent at a university abroad studying through the language you choose as your major language. Exchanges have been established with history and political science departments in universities in France (Paris, Strasbourg, Grenoble, Bordeaux), Germany (Hamburg, Tübingen, Freiburg, Vienna), Italy (Pavia, Siena, Florence), Poland (Cracow), Russia (Moscow) and Spain (Seville, Salamanca, Alcalá, Oviedo, Zaragoza). The year abroad may entail additional expenses for students but support funding, under the European Union's Erasmus scheme, partially offsets this (with the exception of Russia, which is outside the Erasmus scheme).

FOURTH (SENIOR SOPHISTER) YEAR
In fourth year, language work focuses 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: Modernity and Society: Ideas and Culture in Europe since 1850. Additionally, you will choose 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 wish to do so may 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.

If you would like more detailed information on all the modules offered, please visit: **www.tcd.ie/european_studies/undergraduate**

Careers

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 consultancy, teaching (in Ireland and abroad), translating and interpreting, journalism and tourism. Many students go on to do postgraduate courses.

Student Profile | **Aisling Beamish**

As a second-year student of European Studies, I have been lucky enough to interact with professors who are experts in their fields, and they have instilled in me a deep passion for the disciplines I have chosen. In European Studies, we benefit from the chance to discuss our work in tutorials and on an individual basis with lecturers. Trinity is a great place to study and to exchange ideas with enthusiastic staff and students. Trinity also offers a brilliant environment which fosters success for students.

FURTHER INFORMATION

www.tcd.ie/european_studies | Email: european.studies@tcd.ie | Tel: **+353 1 896 1808**

Film Studies

COURSE CODE:	TR001 (TSM)
PLACES 2015:	30
POINTS 2014:	360*-525* (see page 29)
DEGREE AWARDED:	B.A.

What is Film Studies?

What makes a horror film horrifying? Why did the introduction of sound change film forever? What is a digital story world? Why did the Quiet Man come to Ireland? These and many more are the questions that Film Studies asks students to consider. More than that, we invite you to pick up a camera and put the theory you have acquired into practice. Can you put the ideas you have grappled with in the classroom to the test and make a short film informed by critical concepts and a fresh vision of the world around you?

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 may be the course for you.

Why study Film Studies at Trinity?

Trinity launched its pioneering degree course in 2003 and has since become one of the leading undergraduate courses in the discipline. You will be taught by experts in their field, notably in Irish cinema, film theory, digital storytelling and screenwriting. 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. You will work in small groups to debate the topics that arise in lectures and to create short films and documentaries. We offer a cutting-edge intellectual environment and the opportunity to gain introductory skills in filmmaking. Our students are active in many different societies, including DU Film Society and the student-run film magazine, Trinity Film Review.

Graduate Profile | **Neasa Hardiman**

Neasa is an award-winning film and television writer-director. She has won a BAFTA, two RTS awards and several international prizes. She is currently completing her PhD in Film at Trinity.

I chose to study film at Trinity because of its reputation for excellence. 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.

My Trinity experience kick-started my successful career in film and television.

What will you study?

This course will examine film styles and movements from cinema's beginnings in 1895 right up to the present day.

FIRST AND SECOND (FRESHMAN) YEARS

In the first and second years, you will be introduced to film theory and criticism and to a very broad range of American, European and world cinemas. Courses include Film History and Film Theory, World Cinemas and European Cinemas. In addition, you will be given an introduction to screenwriting and digital video production. There are six hours of classes and six hours of screenings per week.

THIRD AND FOURTH (SOPHISTER) YEARS

In third and fourth final year, students choose from a wide range of optional modules. Topics may include National Cinema, Transnational Cinemas, Classical and Contemporary Hollywood Cinema, Genre Studies, Gothic Cinema, Theories of Digital Cinema, Documentary Theory and Practice, Avant-Garde, Experimental, and Cult Cinema, Film Theory and Criticism, and Editing.

In addition, students can take advanced modules in scriptwriting and digital video production, building on the knowledge acquired in second year, and may also 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. **www.tcd.ie/film**

ASSESSMENT

In the first two years Film Studies may be assessed by a combination of essay, examination, project and class presentations, while third and fourth years may be assessed by a combination of essay, assignment, class participation and/or oral presentation as well as a dissertation in the final year.

SPECIAL ENTRY REQUIREMENTS

Film studies must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with Film Studies see page 28.

Study abroad

The department of Film Studies has exchanges with the Freie Universität in Berlin and the Sorbonne Nouvelle in Paris. Students may also go abroad on arrangements organised by their other TSM subject areas, or to non-EU countries. Students may go for one semester or a full academic year, and may go in second or third years.

Careers

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 Trinity 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.

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

FURTHER INFORMATION

www.tcd.ie/film | Email: filmstds@tcd.ie | Tel: **+353 1 896 2617**

French

COURSE CODE:	TR001 (TSM)
PLACES 2015:	84
POINTS 2014:	400*-570* (see page 29)
DEGREE AWARDED:	B.A.

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 language and society and in finding out more about other cultures where French is spoken, in Europe and throughout the world, French at Trinity will appeal to you.

Why study French at Trinity?

French is a major world language, and one of the working languages of many international organisations. Knowledge of the French language opens up a world of opportunities to graduates. The French Department of Trinity hosts the oldest professorship of French in the world (1776) and has, among its alumni, the Nobel prize winner Samuel Beckett. The French Department in Trinity is the largest in Ireland.

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. At Trinity we encourage all students to take the opportunity to go abroad for a full academic year, or a term (see Study Abroad section), so that they get to live and study through the French language. There is no better way to learn a language.

What will you study?

Language instruction forms the backbone of the teaching programme. 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. 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.

FIRST AND SECOND (FRESHMAN) YEARS

The programme in 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

In first year, you will spend four contact hours each week working on French language and grammar, and three contact hours each week studying literature and contemporary French society.

SPECIAL ENTRY REQUIREMENTS

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

French must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with French see page 28.

RELATED COURSES

TR011: Computer Science and Language, page 128
TR018: Law and French, page 86
TR024: European Studies – French with German/Italian/Polish/Russian or Spanish, page 60
TR085: Business Studies and French, page 36

In 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.

THIRD AND FOURTH (SOPHISTER) YEARS

In third and fourth year, a wide variety of optional subjects leading on from courses previously undertaken in first and second year 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.

Written, oral and aural examinations, in addition to essays and continuous assessment of your coursework, all contribute to assessment. 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 and Orléans, Lyon 2, Paris 3, and Bordeaux 3 universities.

Careers

Graduates work for Google, EBay, Christian Louboutin, The Abbey Theatre, Amazon and the British Institute in Florence. 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.

Student Profile | **Sarah Hashish**

My experience of French at Trinity has been hugely positive, with many fantastic lecturers, excellent facilities and well-structured courses all taking place on one of the most beautiful campuses in the world. Not only have I gained a high degree of proficiency in both written and spoken French, I've also learnt so much more about French culture and civilisation through the endless selection of courses, such as linguistics, history, literature, cinema and many more. I know attending Trinity is one of the best choices I've made as the vibrant atmosphere of the University never ceases to amaze me.

FURTHER INFORMATION

www.tcd.ie/French | Email: french@tcd.ie | Tel: **+353 1 896 1553 / 1333** | Twitter: **@tcdfrench**

Geography

COURSE CODE:	TR001 (TSM)
PLACES 2015:	45
POINTS 2014:	430*-570* (see page 29)
DEGREE AWARDED:	B.A.

What is Geography?

Geography is the study of Earth's landscapes, peoples, places and environments. Fundamentally it is about the world in which we live. Geography offers a 21st Century education by uniquely bridging the social sciences (human geography) with the natural sciences (physical geography). Human geography focuses on understanding the dynamics of cultures, societies and economies, while physical geography focuses on understanding the dynamics of physical landscapes. In Trinity, a Geography degree also covers increasingly important environmental issues where humans affect physical environments and vice versa.

Is this course right for you?

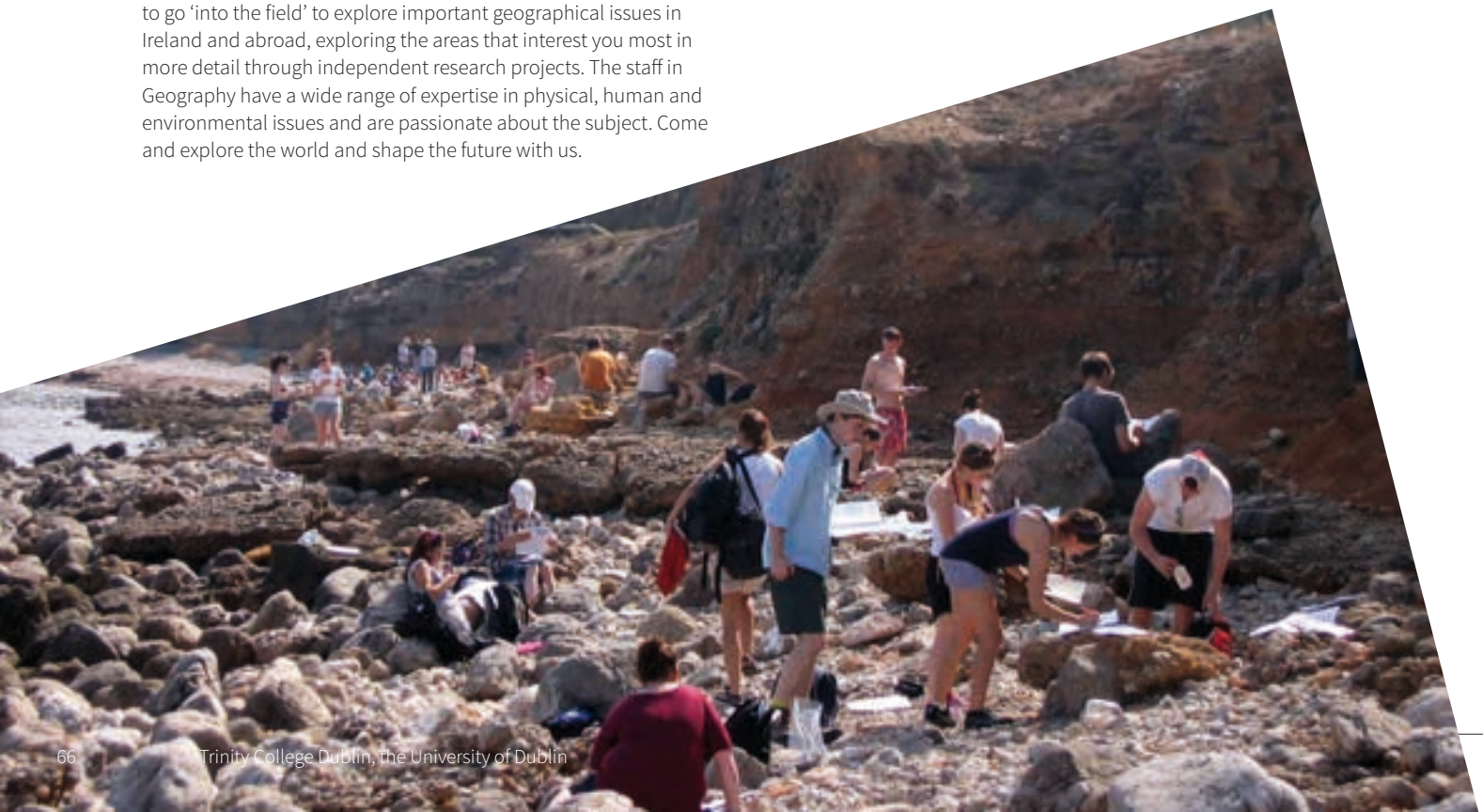
Are you interested in the way the world works? Do you want to make a positive difference to the way in which we live together with the natural world for present and future generations? If the answer is yes, then geography is for you.

Studying Geography at Trinity you will explore a range of topics from the history of cities to the landforms of Mars, strengthening both your creative and analytical abilities. You will develop communication and teamwork skills and most of all you will become fully equipped to become a real-world problem solver. Geography will foster your independence of thought as well as critical and intellectual awareness. You will have opportunities to go 'into the field' to explore important geographical issues in Ireland and abroad, exploring the areas that interest you most in more detail through independent research projects. The staff in Geography have a wide range of expertise in physical, human and environmental issues and are passionate about the subject. Come and explore the world and shape the future with us.

Why study Geography at Trinity?

You will study at one of the world's best universities for Geography – Trinity is ranked in the top 100 in the world for Geography (QS World University Rankings by Subject 2015). The Geography staff, and the programmes we deliver, provide cutting-edge education through research-led teaching. Our research takes us far beyond the lecture theatre to important places around the globe, from Sudan and Slovakia to Zambia, China and New Zealand. Indeed, many Geography staff members are national and world leaders in their respective fields, advising governments, industry and non-governmental organisations on a range of economic, social and environmental issues. Geography at Trinity is an education for life and for living. It is not surprising that many of those who have trained as geographers at Trinity now contribute substantially to the applied management of resources, settlements and environments internationally.

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



SPECIAL ENTRY REQUIREMENTS

Geography must be combined with one other TSM subject.
An honours degree is awarded in both subjects. For subjects that combine with Geography see page 28.

Students may apply to transfer to Geography in the single honours Science (TR071) course for their final two years.

RELATED COURSES

TR029 Political Science and Geography, page 104
TR071: Science, page 146
TR077: Earth Sciences, page 166

What will you study?

The first year (Junior Freshman) 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 first year, students take three introductory modules in Geography:

- **Physical Geography**
- **Environmental Geography**
- **Human**

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

The second (Senior Freshman) 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 that includes a fieldwork component. A combination of continuous assessment and end-of-year examination is used.

THIRD AND FOURTH (SOPHISTER) YEARS
For details of modules in the third and fourth years, see page 153. Students may also opt to take a number of modules from a suite of options that contribute to greater understanding of the world around us from disciplines outside Geography in their third and fourth years. 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-Sorbonne, Prague (Charles University), Utrecht or Stockholm universities.

Careers

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.

FURTHER INFORMATION

www.tcd.ie/geography | Tel: **+353 1 896 1576** | Geography blog: **https://twitter.com/planetgeogblog**
Facebook: **www.facebook.com/tcd.geoblog**

German

COURSE CODE:	TR001 (TSM)
PLACES 2015:	32
POINTS 2014:	435-550* (see page 29)
DEGREE AWARDED:	B.A.

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.

Why study German at Trinity?

- Trinity is ranked 49th in the world for Modern Languages (QS World University Rankings by Subject 2015).
- We offer student-to-student Peer tutoring as well as the 'GradLink' mentoring programme which allows you to link up with our graduates from all over the world and learn from their experiences.

What will you study?

FIRST AND SECOND (FRESHMAN) YEARS

There are approximately 10 hours of classes per week in 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, 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.

THIRD AND FOURTH (SOPHISTER) YEARS

In 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 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 fourth 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. Final year students also write a dissertation.

SPECIAL ENTRY REQUIREMENTS

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

German must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with German see page 28.

RELATED COURSES

TR019: Law and German, page 86
TR024: European Studies, page 60
TR039: Computer Science and Language, page 128
TR086: Business Studies and German, page 36

Study abroad

As a two subject moderatorship (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.

Careers

People with a language degree 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.

FURTHER INFORMATION

Visit us: 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 email or phone.
www.tcd.ie/Germanic_Studies | Email: germanic@tcd.ie | Tel: **+353 1 896 1373**

History

COURSE CODE:	TR003	TR001 (TSM)
PLACES 2015:	38	40
POINTS 2014:	470	495*-555 (see page 29)
DEGREE AWARDED:	B.A.	B.A.

What is History?

History is about people. Studying History means studying lives lived, and ideas thought and expressed in times and places often very different from our own. History embraces everything from the rise and fall of empires or the birth of new ideologies to the contrasting everyday lives of people in a whole range of settings, across time and across the globe. Studying History means developing critical skills, learning to express your ideas and arguments clearly, and becoming self-directed in your studies.

Is this the right course for you?

History is a subject for the intellectually curious. It offers an enormous diversity of subjects to explore, questions to ponder and problems to resolve. The History courses in Trinity allow you to study a remarkable range of types of history – whether cultural or political history, social history or the history of ideas – from the medieval centuries to the very recent past. We offer survey courses allowing you to grasp the broad patterns in history, specialist modules where you can study subjects of particular interest to you in small classes, and opportunities for your own independent research.

Why study History at Trinity?

The History department in Trinity offers a remarkably broad range of subject options for its size. The four-year programme allows students to lay firm foundations in the first two years, with wide-ranging modules on medieval and modern history, Irish, European, American and global, as well as on historical methods and approaches. The final two years of the programme then allow students the chance to study several specialist modules in-depth and to undertake independent research on a subject of their own choice. This is a breadth and depth of study unique in Ireland and with few rivals internationally.

Student Profile | **Eleanor Neil**

I grew up in Brooklyn, New York City and am a fourth year student studying TSM History and Classics. I always knew I wanted to study History. Learning the story of where we came from has always been fascinating. Wanting to do something completely new was a factor in my choice of Trinity, but the level of education sealed the deal for me. The wonderful professors and tutors that I have had in History have been the cornerstone of my experience at Trinity.

Trinity is one of the world's top 50 universities for the study of History (QS World University Rankings by Subject 2015). Our staff have published extensively in the fields of Irish, British, European and American history. We take special pride in the small-group teaching which characterises the final two years of study in particular, and for being a department which places student learning at the centre of its values.

What will you study?

The History programme combines the strength of a broad-based programme in the first two years, introducing all students to the sheer diversity of historical studies, with the freedom to explore areas of particular interest to individual students in the final two years. The first and second years provide a range of modules covering medieval and modern periods, including Irish, European, and American history, as well as some modules exploring the skills and methods which historians use, and the kinds of debates in which historians engage. Teaching is not only in lectures but in small group tutorials. All students will have an opportunity to undertake a group project in their second year, undertaking research as a team. The third and fourth years offer a wide range of choice in more specialist modules, all taught by staff with expertise in that field. There is the opportunity to concentrate on those parts of history which interest you most, and above all in the final year dissertation, an independent research project which very many students find the most rewarding part of their whole degree programme.

FIRST AND SECOND (FRESHMAN) YEARS

Single honours students take modules in medieval and early modern Irish and European history in their first year, as well as modules Doing History and Interpreting History which introduce the methods and approaches historians use in their studies. In the second year, students take modules in Modern Irish and Modern European History, in U.S. History and in Global History. They will also take modules which look at how history has been interpreted and presented, not just by professional historians but in the wider culture and take part in a year-long small group project allowing all students to work on a research project, TSM (joint honour) students also take the Doing History module in first year and take part in the group project in second year, and select from the period-specific modules to make up the History component of their studies.

SPECIAL ENTRY REQUIREMENTS

TR003: Single honour History

TR001 – History (TSM): History must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with History see page 28.

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 215.

RELATED COURSES

TR001: TSM, page 28

TR012: History and Political Science, page 74

TR028: Ancient and Medieval History and Culture, page 72

THIRD AND FOURTH (SOPHISTER) YEARS

We offer a range of subjects within two different categories:

- **List I modules** – these are specialist modules which involve intensive research and writing based on primary sources.
- **List II modules** – these are broader thematic and analytical modules. Some will have a particular focus on historiography – on how different historians have tried to understand a period or problem.

In any given year there will be around fourteen List I and eighteen List 2 modules to choose from. They include a huge range of types of history – including political, social, cultural or intellectual history – as well as ranging in time from the Viking era to the post-1945 world, and including Irish, European, American and Asian history modules.

For fuller details on all our modules see: **www.tcd.ie/history/undergraduate/modules**

Study abroad

The Department of History has Erasmus exchange agreements with a wide range of European universities including the University of St. Andrews (Scotland), the Sorbonne (Paris), the University of Vienna and Charles University in Prague. The Department also has an exchange agreement with the University of Tokyo, and students of History can also arrange for a year abroad in other countries, notably the U.S.A., Australia and Canada, where some recent examples would include the University of California, the University of Sydney or McGill University (Montreal).

Careers

Over many decades History graduates (single honour 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. Our graduates work for such organisations as IBEC, the Irish Times, Bank of Ireland, Goldman Sachs, the Law Society of Ireland, Oxfam, the American Chamber of Commerce, RTÉ, Google and Accenture. The diversity of careers reflects the wide array of skills amassed by students undertaking a degree in History at Trinity.

FURTHER INFORMATION

www.tcd.ie/history | Tel: **+353 1 896 1791 / 1020**

Ancient and Medieval History and Culture

COURSE CODE:	TR028
PLACES 2015:	15
POINTS 2014:	450
DEGREE AWARDED:	B.A.

What is Ancient and Medieval History and Culture?

Ancient and Medieval History and Culture concentrates on the period c. 2000 B.C. to c. 1500 A.D. It explores the changes in society, politics, religious practices, and art and architecture that have helped to shape the world we live in. Over the four years of the programme you will explore topics including the development of different systems of government (from democracy in ancient Greece to monarchy and empire in the Middle Ages), the formation of Europe, ancient and medieval belief systems and religious practices (from the pantheon of ancient deities to the dominance of Christianity), the development of the legal system, and the role of warfare in bringing about change. You will have the opportunity to explore developments in educational practices including the emergence of the university, changing attitudes to gender, sexuality and the place of women in society, and the different styles of European art and architecture used in the period.

Is this the right course for you?

If you are curious about the past and about how history has shaped the world we live in then Ancient and Medieval History and Culture will appeal to you. Through the investigation of texts, artefacts and buildings this programme provides an intellectually stimulating encounter with the past, and challenges you to think about a range of cultural, social and political issues.

Why study Ancient and Medieval History and Culture at Trinity?

The programme in Ancient and Medieval History and Culture is unique in offering a focused study of antiquity and the middle ages. As part of the School of Histories and Humanities, you will be able to work with experts in the fields of classics, history and art history, joining a vibrant community of staff and students in this interdisciplinary programme. As you progress through the course you will be able to choose to focus on particular time periods or themes, culminating in the opportunity to undertake in-depth research for your undergraduate dissertation. You will have access to rich collections of source material, including the University collections, visits to museums and galleries in Dublin, and opportunities to venture further afield through field trips to other European destinations.

SPECIAL ENTRY REQUIREMENTS

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 215.

RELATED COURSES

TR001: TSM, page 28
TR003: History, page 70
TR012: History and Political Science, page 74

What will you study?

Ancient and Medieval History and Culture is a four-year honours degree programme. 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 the first year of the programme. The teaching includes lectures, seminars (typically with 10-15 students) and site visits. As your studies progress, the modules become more thematically specialised, with an increasing emphasis on intensive discussion and independent research. In third and fourth years you have the option to choose from a wide range of modules, providing an opportunity for specialised research in areas that particularly interest you.

Our teaching and learning is dynamic, with a strong emphasis on student participation. The programme is assessed through a combination of end-of-year examinations and continuous assessment (including essays, seminar presentations, group-work projects, and commentaries on sources). A dissertation is written in the final year.

FIRST (JUNIOR FRESHMAN) YEAR
Introductory modules in Ancient History or Latin, Art History, and Medieval History. These modules introduce you to key developments in the history and culture of antiquity and the middle ages c. 2000 B.C.-1500 A.D.

SECOND (SENIOR FRESHMAN) YEAR
In the second year all students take compulsory modules in Medieval History, Greek History or Roman Imperial History, and Medieval Art. The remaining modules are chosen from a range offered by the three disciplines, for example Irish, British or European Medieval History, Latin, Architectural History, the Art of the Italian Renaissance, and the Archaeology of the Greek and Roman Worlds.

THIRD AND FOURTH (SOPHISTER) YEARS
In the third year the only compulsory module explores the city of Rome in antiquity and the middle ages. You may choose other modules exploring aspects of ancient history, medieval history, art history and archaeology.

In the final year you will choose two modules and write a dissertation. Amongst the modules which may be available to study are: The Art of Sanctity; Spectacle and Entertainment in the Greek and Roman Worlds; Jewish Society and Politics, 200 B.C.-70 A.D.; Kings and Cities in the Hellenistic World; Anthropology and the Greeks; Ancient Cyprus; The Vikings c. 790-1100 A.D.; The Archaeology of Warfare c. 1000-1350 A.D.; Ireland and the Plantagenet Empire, 1327-1399 A.D.; From Kingdom to Colony, Ireland in the Twelfth Century.

Fourth year students also write a research dissertation on a topic of their choice.

If you would like to find out more about the modules offered, please visit: **http://histories-humanities.tcd.ie/undergraduate/ancient-medieval**

Study abroad

In the second and third years of the programme students may take part in the annual field trip. These trips allow students to undertake detailed first-hand analysis of sites and objects. Past destinations have included Canterbury, Cologne, Durham, and Florence.

Students studying Ancient and Medieval History and Culture may apply to spend a year abroad, using the exchange networks of the School of Histories and Humanities. These include Erasmus programme links with universities in Berlin, Bologna, Bordeaux, Edinburgh, Florence, Geneva, Istanbul, Madrid, Manchester, Paris, Pisa, St Andrews and Vienna. In addition, the programme facilitates exchanges with non-European institutions in Australia, Canada, China, Singapore and the USA.

Further information on the year abroad programme, and a full list of partner universities, can be found at: **http://histories-humanities.tcd.ie/undergraduate/ancient-medieval/abroad.php**

Careers

The interdisciplinary nature of the course opens up an exciting variety of fields after leaving university. Specific related fields include archaeology, art conservation, heritage and museum work and teaching. Graduates from the School of Histories and Humanities have also entered accountancy, advertising, business, civil service, diplomatic corps, human resources, journalism, management, and publishing. Others have progressed to postgraduate study at universities across Ireland, Europe and North America.

FURTHER INFORMATION

http://histories-humanities.tcd.ie/undergraduate/ancient-medieval | Email: cleaverl@tcd.ie | Tel: **+353 1 896 2625**

History and Political Science

COURSE CODE:	TR012
PLACES 2015:	24
POINTS 2014:	500
DEGREE AWARDED:	B.A.

What is History and Political Science?

History is about people. Studying History means studying lives lived, and ideas thought and expressed in times and places often very different from our own. History embraces everything from the rise and fall of empires or the birth of new ideologies to the contrasting everyday lives of people in a whole range of settings, across time and across the globe. Studying History means developing critical skills, learning to express your ideas and arguments clearly, and becoming self-directed in your studies.

Political Science is the study of governments, public policies and political behaviours. 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 for greater equality? Should it introduce 'green taxes' in order to protect the environment? How high a priority should development aid be? Questions such as these, along with analyses of political systems, political behaviour, international relations and how democracy works, are at the heart of the study of political science.

Is this the right course for you?

The History and Political Science course offers the opportunity to study two subjects with close affinities as part of a coherent structured programme. 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. The combination allows students to engage with problems past and present, national and international, using a range of approaches, but with an emphasis on self-directed study and the development of intellectual skills.

Student Profile | **Fionn McGorry**

Being originally from Australia, when I was deciding whether to stay in Ireland, Trinity was the clear choice. With an unparalleled student life – I've participated a lot in the Philosophical Society – in the centre of the capital, Trinity was very convincing. The array of transferable skills learned from a History and Political Science degree have prepared me well for so many potential careers. I focused on Modern Irish History and Politics, and having access to a wealth of primary sources and world-leading experts means that Trinity is the centre of excellence in this field.

Why study History and Political Science at Trinity?

Trinity is one of the world's top 50 universities for the study both of History and of Political Science (QS World University Rankings by Subject 2015).

Both departments offer a remarkably broad range of subject options for their size. The four-year programme allows students to lay firm foundations in both disciplines in the first two years. Wide-ranging modules cover medieval and modern history, Irish, European, American and global, as well as on historical methods and approaches. Political Science modules address such areas as comparative politics, international relations and the history of political thought. The final two years of the programme then allow students the chance to study several specialist modules in-depth.

What will you study?

The History programme combines the strength of a broad-based programme in the first two years, introducing all students to the sheer diversity of historical studies, with the freedom to explore areas of particular interest to individual students in the final two years. First and second year provide a range of modules in medieval and early modern Irish and European history (year one), modern Irish and modern European history, U.S. history and global history (year two), as well as a Doing History module on the methods used by historians, and participation in a history group project in year two.

In each of the first two years students take 3 Political Science modules. In year one these are: Introduction to Political Science; Introduction to Sociology; Introduction to Economic Policy. In year two these will be: History of Political Thought; International Relations; Comparative Politics.

Both the History and Political Science departments allow students to select modules in their third and fourth years which can enable them to concentrate on areas of particular interest to you. In History, modules will include some which involve intensive research and writing based on primary sources and others which are broader thematic and analytical modules and may have a particular focus on historiography – on how different historians have tried to understand a period or problem. Students taking only History in fourth year will also write a dissertation.

RELATED COURSES

TR001: TSM History, page 70
TR003: History, page 70
TR028: Ancient and Medieval History and Culture, page 72
Political Science: page 102

Among the specialist modules available in political science are:

- Irish Politics
- Contemporary Political Theories
- Political Parties
- Issues in Contemporary Politics
- Democracy and Development
- European Union Politics
- Contemporary International Relations
- African Politics
- Chinese Politics

History modules may include:

- The Vikings, 790-1100
- The Archaeology of Medieval Warfare, 1000-1300
- Renaissance Florence, c.1347-1527
- The Elizabethans and their World, 1550-1610
- From Rebellion to Restoration: Confederate and Cromwellian Ireland
- The French Revolution
- Violence, Law and Order in Eighteenth- and Nineteenth-Century Ireland
- Constitutional Nationalism vs. Republicanism: Ireland 1782-1916
- Sub-Saharan Africa since 1875
- Race and Ethnicity in American Thought since 1880
- Ireland in the 1920s and 1930s
- American Politics and Culture, 1939-1989
- Ireland, Britain and America during the Cold War and Beyond, 1948-1998
- The Troubles, 1968-1998

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. The Department of History has Erasmus exchange agreements with a wide range of European universities including the University of St. Andrews (Scotland), the Sorbonne (Paris), the University of Vienna and Charles University in Prague as well as an exchange agreement with the University of Tokyo. The Department of Political Science is a partner in Erasmus exchanges with the Institute d' Études Politiques in Strasbourg and Paris, the University of Zurich, the University of Bologna and University of Mannheim. History and Political Science students can also arrange for a year abroad in other countries, notably the U.S.A., Australia and Canada, for example at the University of California, the University of Sydney or McGill University (Montreal).

Careers

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. Graduates of the departments work for such organisations as IBEC, the Irish Times, Bank of Ireland, Goldman Sachs, the Law Society of Ireland, Oxfam, the American Chamber of Commerce, RTÉ, Google and Accenture. The diversity of careers reflects the wide array of skills amassed by students undertaking a degree in History and Political Science at Trinity.

FURTHER INFORMATION

www.tcd.ie/political_science/undergraduate | Tel: **+353 1 896 1651** | **www.tcd.ie/history** | Tel: **+353 1 896 1020**

History of Art and Architecture

COURSE CODE:	TR001 (TSM)
PLACES 2015:	40
POINTS 2014:	385*-555 (see page 29)
DEGREE AWARDED:	B.A.

What is History of Art and Architecture?

History of Art and Architecture is about the study of images and objects from a wide range of historical periods. It analyses why art works look the way they do and seeks to discover what they say about the societies that created them. It develops skills in visual analysis, critical assessment and communication. First-hand experience of objects, artworks and buildings is at the heart of the discipline and Dublin's rich collections of painting, sculpture and architecture provide an ideal basis for the study of art history. Students do not need any previous knowledge of art history or any practical skill in art to take this course.

Why study History of Art and Architecture at Trinity?

Trinity is the ideal place in which to study the History of Art and Architecture in Ireland. An environment of exceptional architectural and artistic quality, the campus is within easy reach of the city's many museums and galleries. The Department places particular emphasis on engagement with this historic environment and on first-hand knowledge of the national and Trinity collections from manuscripts such as the Book of Kells to Georgian buildings to contemporary painting and sculpture.

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

What will you study?

This course teaches you how to analyse works of art and how to understand and explain 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.

SPECIAL ENTRY REQUIREMENTS

History of Art and Architecture must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with History of Art and Architecture see page 28.

RELATED COURSES

TR003: History, page 70
TR012: History and Political Science, page 74
TR028: Ancient and Medieval History and Culture, page 72

FIRST (JUNIOR FRESHMAN) YEAR

In the Junior Freshman 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.

SECOND, THIRD AND FOURTH YEARS

Over the course of second, third and fourth years, you will have the opportunity to take courses in the following areas:

- Insular Art
- Antiquity and Innovation in Early Medieval Art
- 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 Foundation 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
- 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 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 Art and Architecture in Late Medieval Ireland, 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.

ASSESSMENT

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

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 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.

Careers

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

FURTHER INFORMATION

www.tcd.ie/history_of_art | **www.douglashydegallery.com** | Tel: **+353 1 896 1995**

Irish (Early Irish and Modern Irish)

COURSE CODE:	TR022	TR001 (TSM-EI)	TR001 (TSM-MI)
PLACES 2015:	15	10	30
POINTS 2014:	360	n/a	415*-555 (see page 29)
DEGREE AWARDED:	B.A.		

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 honour Early and Modern Irish programme (TR022).

What is Early Irish?

Early Irish is the language in use in Ireland from the earliest period for which there are records up to the year 1200. The course covers the language and literature from the emergence of writing at the arrival of Christianity in Ireland to the production of the great saga manuscripts of the twelfth century.

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.

Why study Early Irish at Trinity?

The Irish department at Trinity has a long history of excellence in the study of Early Irish and continues to engage in research at the highest level. The staff are recognised as experts in their respective fields and many former students are now teaching in Irish universities. You will enjoy small class sizes and a friendly atmosphere which past students have always said was a hallmark of the Trinity Irish Department experience. You may also avail of the option to study Medieval and Modern Welsh in Wales in your third year.

Trinity 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.

What will you study?

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 Trinity, the Royal Irish Academy and the National Library, all within a five-minute walk of Trinity. You will investigate the Celtic and Indo-European origins of Irish. 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. You will explore the Pagan and/or Christian character of the literature as well as topics such as kingship, the heroic biography and the sovereignty goddess.

FIRST AND SECOND (FRESHMAN) YEARS

In the first two years you will study the basics of Old Irish. At this stage you will read most literature 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.

THIRD AND FOURTH (SOPHISTER) YEARS

In third and fourth year 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. 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.

Careers

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.

Cad is brí le Nua-Ghaeilge?'

Tugtar 'Nua-Ghaeilge' ar an teanga ón mbliain 1200 go dtí an lá atá inniu ann. Sa chúrsa seo léitear litríocht ó gach cuid den tréimhse agus déantar staidéar ar fhorás na teanga lena linn. Déantar staidéar speisialta freisin ar Ghaeilge an lae inniu agus ar Ghaeilge na hAlban.

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 TSM subject

OR

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

In TR001 (TSM) Early Irish or Modern Irish must be studied with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with Early Irish and with Modern Irish see page 28.

RELATED COURSES

TR013: Computer Science and Language, page 128

An é seo an cúrsa duitse?

An mbaineann tú taitneamh as Gaeilge a labhairt? An maith leat an Ghaeilge a scríobh is a léamh? An bhfuil tú ag iarraidh go mbeidh an ghaeilge timpeall ort gach lá? Más mian leat barr feabhais a chur ar do chumas sna réimsí sin, seo an cúrsa duitse.

Cén fath a roghnófá an Nua-Ghaeilge i gColáiste na Tríonóide?

Tá cáil ar fhoireann Roinn na Gaeilge sna goirt ina bhfuil siad ag obair mar scoláirí agus iad ag foilsiú leo go rialta. Chomh maith leis sin, tá an-cháil ar an Roinn as a bheith cairdiúil, rud a thaitníonn go mór lenár gcuid mac léinn. Bíonn líon na mac léinn beag go leor le go mbíonn sé éasca do 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.

Cad a bheidh á fhoghlaim agat?

Is trí mheán na Gaeilge a mhúinfear 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 nualitríocht 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, díríonn an cúrsa ar na hábhair seo a leanas: scileanna i labhairt agus scríobh na teanga, an cheapadóireacht, an t-aistriúchán, stair shóisialta na Gaeilge, an Ghaeilge Chlasaiceach, an nualitríocht, Gaeilge na hAlban.

AN TRÍÚ BLIAIN AGUS AN CEATHRÚ BLIAIN

Sa tríú bliain agus sa cheathrú bliain, díríonn an cúrsa ar na hábhair seo a leanas: ardscileanna teanga (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 phailéagrafaíocht) agus léirmheastóireacht chriticiúil a dhéanamh ar scéalaíocht na seanré. Ina theannta sin, déanfaidh tú rogha cúrsaí sa Nua-Ghaeilge Mhoch, sa litríocht bhéil, i nualitríocht na Gaeilge agus/nó nualitríocht Ghaeilge na hAlban.

MEASÚNÚ

Déanann gach mac léinn cleachtaí scríofa gach seachtain mar chuid den mheasúnú leanúnach; bíonn aistí le scríobh go tráthrialta, agus béaltriail agus scrúduithe scríofa ag deireadh na bliana. Sa cheathrú bliain, déanann mic léinn taighde neamhspleách agus scríobhann siad miontráchtas.

Postanna

Tá réimse an-leathan gairmeacha ag daoine a rinne Nua-Ghaeilge anseo. Ina measc tá cuid mhaith múinteoirí, iriseoirí (sna meáin Ghaeilge go háirithe) agus daoine le postanna eile sna meáin – teilifís, ceol, beochan, raidió agus an t-idirlíon. Tá borradh tagtha ar líon na ndaoine a fhaigheann postanna mar ateangairí agus aistritheoirí, cuid acu siúd thar sáile. Tá léachtóirí ollscoile agus leabharlannaithe againn chomh maith, agus iarmhic léinn eile ag obair sa tseirbhís phoiblí, le gnó agus le margaíocht.

FURTHER INFORMATION

www.tcd.ie/Irish | Student profiles: See: **www.tcd.ie/courses/undergraduate** and select these courses
Email: nibhraoc@tcd.ie | Tel: **+353 1 896 1450**
Cuireann Roinn na Gaeilge fáilte roimh aon mhac léinn ar mhaith leo freastal ar roinnt léachtaí le blaiseadh a fháil ar chúrsa sa Nua-Ghaeilge i gColáiste na Tríonóide, ach teagmháil a dhéanamh linn.

Italian

COURSE CODE:	TR001 (TSM)
PLACES 2015:	30
POINTS 2014:	360*-570* (see page 29)
DEGREE AWARDED:	B.A.

Course overview

Having played a key role in shaping European civilisation, Italy is today one of the world's most dynamic economies, famous for style, design and innovation. It has a turbulent history and a great literature. If you want to gain an in-depth knowledge of Italy's people and culture, this course gives you the chance to develop your interests across a broad range. We will help you master the language, too; you can even start Italian as a complete beginner. There is close contact between students of Italian and staff. You will receive individual attention and you are 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 flair for languages, and enjoy exploring foreign countries and their cultures, or if you want to equip yourself for a career in the multilingual, multicultural world of the future. Many jobs here in Ireland already demand an international mindset.

Why study Italian at Trinity?

Your core course and options will allow you to explore many facets of the Italian experience: from love poetry to film, from Garibaldi to Berlusconi, from Dante to the Mafia. Our staff are leading researchers in their fields. Italian has been taught here since 1776, and the Trinity Library has an exceptional collection of Italian books and manuscripts. You will travel to Italy, and build up advanced language and intercultural skills including translation and you will be part of a lively and diverse student body.

What will you study?

FIRST AND SECOND (FRESHMAN) YEARS
In 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. There is a combination of written, oral and aural examinations, in addition to essays and continuous assessment of coursework and assignments.

In second year you continue with your language development and explore the Italian literary tradition including Dante's Inferno and the sonnets of Petrarch, together with substantial exposure to modern culture, history and Italian cinema.

THIRD AND FOURTH (SOPHISTER) YEARS
The third and fourth year focus on major authors of the medieval, Renaissance and later periods, including contemporary perspectives on Italy and its culture. Options are available in literature, linguistics, 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 advanced modules on Italian language varieties, key texts from Italian literature, and a thematic approach to the modern period. Optional topics can be studied in depth, and you will research a substantial dissertation on a topic of your choice.

Graduate Profile | **Peter Sherrard**

Italian is a huge asset and helped to open many doors early in my career. Being a niche skill, it gives rise to all sorts of experiences which would not normally be available to most arts graduates. With self-belief, luck and desire to learn quickly, Italian graduates can soon find themselves managing complex business situations and given responsibilities far greater than offered to their peers. In my own case, I was made Ryanair Country Manager for Italy at the age of 26. I would never have had this opportunity so early on, were it not for my knowledge of Italian gained at Trinity.

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 must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with Italian see page 28.

RELATED COURSES

TR024: European Studies, page 60.

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 a year at a European university through the Erasmus programme. In Italy, our links include the Universities of Bologna, Trieste and Pavia, while some students have gone to Italy under exchanges organized by other Departments with universities such as Florence and Pisa.

Careers

Advanced language skills are widely 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, charities, the public service, university administration, import-export, writing, journalism, translation, theatre, PR, diplomacy, corporate recruitment, finance, football management, teaching, lecturing, even banking. Some have opted to live in Italy. Work locations include Paris, Milan, Brussels, London, New York. Many undertake 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 | Email: italian@tcd.ie | Tel: **+353 1 896 2062**

Jewish and Islamic Civilisations

COURSE CODES:	TR001 (TSM)
PLACES 2015:	10
POINTS 2014:	395-570* (see page 29)
DEGREE AWARDED:	B.A.

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. Jewish and Islamic Civilisations is the study of their historical origins and cultures, providing students with an insight into the challenges of diversity and multiculturalism in an increasingly globalised world.

Is this the right course for you?

If you are interested in ancient and modern history, in literature, in religion and philosophy, in the Middle East and its relationship with the Western world, 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.

Why study Jewish and Islamic Civilisations at Trinity?

Trinity is the only university in Ireland that offers a course in Jewish and Islamic civilisations. It attracts students of social and cultural diversity from Ireland and abroad. Our graduates in Ireland and internationally include lecturers working in European, UK and US universities, as well as graduates working in other areas including museum work, journalism, international relations, human rights and law. The degree in Jewish and Islamic civilisations is offered by the Department of Near and Middle Eastern Studies which is part of Trinity's School of Languages, Literatures and Cultural Studies, ranked in the world top 50 (QS World University Rankings by Subject 2015).

Student Profile | **Thalia Nielsen**

Jewish and Islamic Civilisations offers such a broad spectrum of topics. I loved the fact that I could tailor my degree to my own interests. Though my interest is mainly in the Arab world, modules in Jewish history were fascinating. As a small department, it is easy to get to know everyone – lecturers and classmates – which had a highly positive impact on my overall experience of university life. After graduating, I went on to do a Masters in Museum Studies.

By comparison with other Trinity departments, the department of Near and Middle Eastern Studies is small in size but has a thriving undergraduate and postgraduate community. Our dedication to small-group teaching makes the student experience particularly rewarding. Amongst our students we foster independent and creative thinking and to facilitate this, lecturers are always ready to meet individual students to discuss academic issues.

What will you study?

Jewish and Islamic Civilisations at Trinity is a four-year honours degree programme. In your first year your class size will be approximately ten students, and from your second year, your class size will average around 35. In first and second year, you will be introduced to the history of Jews and Muslims in the context of the Middle East and in the context of Europe and the USA. From second year you may choose to commence study of a language, either Arabic, Turkish or Hebrew. You may also choose a course from Trinity's Broad Curriculum modules (see page 19).

In third and fourth year you may choose to continue your language (Hebrew, Arabic, Turkish) and choose from a wide range of modules offered by the Department of Near and Middle Eastern Studies.

A variety of assessment methods, including continuous assessment are used. You can expect to be involved in student presentations, group coursework, projects and many other forms of student engagement.

FIRST (JUNIOR FRESHMAN) YEAR

In the first year we offer introductory courses in the origins of Judaism and Islam, Ancient Near Eastern history and culture, medieval and modern Jewish and Islamic civilisations explored through literature, inscriptions, film and archaeological evidence.

SECOND AND THIRD (SENIOR FRESHMAN AND JUNIOR SOPHISTER) 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 study diverse cultures in the ancient, medieval and modern worlds through political, religious and literary texts, material culture and film. Topics include: Ancient Empires, Arabs in Antiquity, Contemporary Islamic Movements, Human Rights in the Middle East, The History of Jews and Muslims in Europe from the Medieval to the Modern Period, and Turkish Cultural History.

SPECIAL ENTRY REQUIREMENTS

Jewish and Islamic Civilisations must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with Jewish and Islamic Civilisations see page 28.

In addition you have the option to take Arabic, Hebrew or Turkish. In second year you may take a course in Trinity's Broad Curriculum programme (see page 19).

FOURTH (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 and their Encounter with Greek Culture; Islam and Gender; Holocaust Representation in Film and Literature, Advanced Hebrew, Turkish or Arabic. You will also write a thesis on a topic of interest to you.

If you would like to find out more detailed information on all the modules offered, see: **www.tcd.ie/nmes/NMES%20Handbook%2014-15.pdf**

Study abroad

In third year, students have the opportunity to apply to study abroad in a prestigious European university with the EU funded Erasmus programme. Alternatively, you may apply to spend your third year in leading universities in North America, Australia and Hong Kong. The department of Near and Middle Eastern Studies also has a special exchange programme with Charles University, Prague.

Further information on the year abroad programme, and a list of partner universities, can be found at: **www.tcd.ie/study/non-eu/study-abroad/from-trinity/college-exchanges/Partner%20Universities/index.php**

For European Erasmus exchanges: **www.tcd.ie/study/non-eu/study-abroad/from-trinity/erasmus**

Careers

This broad humanities degree in Jewish and Islamic Civilisations provides the ideal foundation for those aspiring to careers in public services, foreign affairs, diplomacy, journalism and education. Many of our graduates can be found in these and in other professions. Students receive a rewarding education in Jewish and Islamic history and culture, but also instilled are more general skills, such as critical thinking and problem solving, skills which are highly attractive to potential employers.

FURTHER INFORMATION

Visit us: If you are considering studying for a degree in Jewish and Islamic Civilisations at Trinity but want to be sure, you are most welcome to attend first and second year lectures. If you would like to avail of this opportunity, please contact us by email to arrange a visit.
www.tcd.ie/nmes | Email: nmes@tcd.ie | Tel: **+353 1 896 1451** | **facebook.com/nmes.tcd.ie**
Student profiles: see: **www.tcd.ie/nmes/undergraduate**

Law

COURSE CODE:	TR004
PLACES 2015:	90
POINTS 2014:	525*
DEGREE AWARDED:	LL.B.

What is Law?

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 involves not only learning legal rules but also interpreting, applying and critiquing legal principles. This requires the development of the skills of argument and advocacy as well as critical analysis and reasoning.

Is this the right course for you?

The study of law will appeal to you if you are 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 the law is deeply linked to its historical and political context. Legal training requires precise and careful use of language; therefore, good writing skills and a facility for articulate expression are also important.

Why study Law at Trinity?

Trinity's School of Law, is Ireland's oldest and most internationally renowned law school. With a distinguished team of professors and lecturers, the Law School attracts students of the highest calibre from Ireland and abroad. Our strong network of alumni in Ireland and internationally includes leading lawyers, judges, including Chief Justices, Presidents of Ireland, policy makers and public representatives. The Law School has produced some of the most prolific lawyers of the modern era in Ireland. Our historic school is ideally situated for law students, being in close proximity to the Four Courts and Houses of Parliament. The school is one of the world's top 100 universities for law (QS World University Rankings by Subject 2015).

By national and international comparisons we are small in size but our dedication to small group teaching fosters a friendly and vibrant relationship between staff and students, one inspired by mutual respect and co-operation. Creativity and independent thinking are amongst the key attributes we foster amongst our students.

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 University's Law Society and now enjoys international dissemination.

What will you study?

Law at Trinity is a four-year honours degree programme. Most of the teaching takes place at lecture level and is supplemented with seminars (small group teaching) in classes of between 12-15 students. In the Freshman (first two) years, fundamental skills are taught through a study of core legal topics: legal research, case law method, statutory analysis, oral and written argument. In the Sophister (final two) years students have the option of choosing from an unrivalled number of modules affording our students the opportunity to specialise and gain a competitive advantage over graduates from many other universities.

Teaching and learning is innovative, with a strong emphasis on student contribution in class. This is reflected in a wide-range of teaching practices including the Socratic method, student presentations, group coursework, projects and many other forms of student engagement. As a reflection of these different teaching practices, a diverse range of assessment methods is used, including case notes, essays, mock trials, mock parliaments, contribution to web-discussion boards, response papers and research dissertations.

FIRST (JUNIOR FRESHMAN) YEAR
Foundations of Law, Torts, Constitutional Law I, Contract Law, Criminal Law, Legislation and Regulation.

SECOND (SENIOR FRESHMAN) YEAR
Administrative Law, Constitutional Law II, Equity, European Union Law, Land Law and Private Law Remedies (including Mooting).

THIRD AND FOURTH (SOPHISTER) YEARS
Amongst 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; Current Issues in the Legal Profession; Economic and Legal Aspects of Competition Policy; Employment Law; English Land Law; Environmental Law; Equality Law, European Human Rights; Evidence; Family Law; Food Law; Intellectual Property Law; International Family Law; International Human Rights Law; International Trade Law; Jurisprudence; Legal Philosophy; Media Law; Medical Law and Ethics; Penology; Private Law Theory: Obligations; Public Interest Law; Public International Law; Refugee and Immigration Law; Restitution; Tax Law; Transnational Contract Law; Sport and the Law.

SPECIAL ENTRY REQUIREMENTS

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 215.

RELATED COURSES

TR017: Law and Business, page 88
TR018/019: Law and French/German, page 86
TR020: Law and Political Science, page 90

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 (see page 19). Senior Sophister students may also opt to write a research dissertation on a topic of their choice and/or apply for the Clinical Legal Education module in place of taught modules.

If you would like more detailed information on all the modules offered, please visit: **www.tcd.ie/Law/undergraduate/llb/freshman.php**

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, Australia and Hong Kong. Our exchange programmes are highly successful, and are an extremely popular option for law students each year. Participating students find that they are hugely enjoyable, academically and culturally rewarding, and a valuable asset to prospective employers.

Further information on the year abroad programme, and a list of partner universities, can be found at: **www.tcd.ie/Law/undergraduate/study-abroad.php**

Careers

A law degree provides the ideal foundation for the aspiring solicitor or barrister, of whom we have many distinguished alumni. Our degrees in law provide students with a challenging and rewarding legal education but also instil more general skills such as critical thinking and problem solving. The skills learned through studying law in Trinity are useful in all walks of life and offer 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.

The School of Law enjoys a mutually beneficial and close relationship with its alumni. Every year our graduates working in leading Irish, UK and international legal and consultancy firms return to Trinity to offer **internship and job opportunities** to our students. Our annual Careers Fair and the TCD Law Society's Careers Officer organise regular presentations and events for students to meet with potential employers.

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 modules in your primary law degree. Each of our five undergraduate degree programmes guarantee you that will have the opportunity to take these modules. Our programmes also offer additional modules required for entry into the UK professional bodies.

All students considering a career as a lawyer should consult the relevant professional body of their preferred jurisdiction to ensure they satisfy all entry requirements.

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 university's 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.

FURTHER INFORMATION

Visit us: If you are considering studying for a Law degree at Trinity but want to be sure, you are most welcome to attend first and second year lectures. If you would like to avail of this opportunity, please contact us by email to arrange a visit.
Law Open Day: See page 23.
www.tcd.ie/law/undergraduate | Email: law.school@tcd.ie | Tel: **+353 1 896 1125 / 1278**
www.facebook.com/TrinityCollegeDublinLaw

Law and French/German

COURSE CODES:	TR018 (French)	TR019 (German)
PLACES 2015:	15	15
POINTS 2014:	560*	515
DEGREE AWARDED:	LL.B. (Ling. Franc)	LL.B. (Ling. Germ)

What is Law and French/German?

With continuing European integration and increasing globalisation, there is a need for lawyers with a transnational 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, have 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 have the ability to become fluent in the relevant language.

Why study Law and French/German at Trinity?

The Law and French and Law and German degree programmes offer a unique opportunity to study, not just the Irish legal system but also the legal systems of France or Germany, their languages, culture and political systems. The class sizes are small, fostering a close collegial relationship with peers and members of the faculty.

What will you study?

In the first and second (Freshman) years, you will study a variety of legal modules, taken alongside students reading for our other undergraduate law programmes. Law and French or German 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.

The French and German law components in this programme are designed to equip students to study and ultimately practise law through French or German. New entrants are not expected to be fluent; rather they will develop their language skills through the degree.

FIRST (JUNIOR FRESHMAN) YEAR
Foundations of Law; Contract Law; Constitutional Law 1; Criminal Law; French Constitutional Law and Legal Systems or German Legal System; French or German Language; French Civilisation and Legal Methods or German Area Studies.

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	HC1	French (TR018)
	HC1	German (TR019)
Advanced GCE (A-Level)	Grade C	French (TR018)
	Grade C	German (TR019)

RELATED COURSES

TR004: Law, page 84
TR017: Law and Business, page 88
TR020: Law and Political Science, page 90

SECOND (SENIOR FRESHMAN) YEAR
Law of Tort; Land Law; Private Law Remedies (including Mooting programme); Equity; French Language and Civilisation or German Language; French Legal Methods or German Cultural History; French or German Civil Law.

THIRD AND FOURTH (SOPHISTER) YEARS & STUDY ABROAD
The third year is spent studying legal or related subjects in one of France or Germany's top-ranking universities. This year abroad is designed to enable the student to enhance their knowledge of French/German law whilst perfecting their fluency in the foreign language.

Law and French students can currently apply to spend their year in Paris, Bordeaux, Strasbourg or Toulouse. Law and German students spend their year in Berlin, Hamburg, Mainz, München, Freiburg, Erlangen-Nürnberg, Würzburg, Marburg or Jena.

In fourth year, students choose from a large range of law modules, and further French or German law or language modules.

Amongst 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; Current Issues in the Legal Profession; Economic and Legal Aspects of Competition Policy; Employment Law; English Land Law; Environmental Law; Equality Law, European Human Rights; Evidence; Family Law; Food Law; Intellectual Property Law; International Family Law; International Human Rights Law; International Trade Law; Jurisprudence; Legal Philosophy; Media Law; Medical Law and Ethics; Penology; Private Law Theory: Obligations; Public Interest Law; Public International Law; Refugee and Immigration Law; Restitution; Tax Law; Transnational Contract Law; Sport and the Law.

The School of Law is committed to making available to students the option of taking a module from outside the discipline, under the Broad Curriculum programme, see page 19. Fourth year students may also opt to write a research dissertation on a topic of their choice and/or apply for the Clinical Legal Education module in place of taught modules.

If you would like to find out more detailed information on all the modules offered, see: **www.tcd.ie/Law/undergraduate/llb/freshman.php**

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. For information on assessment in other law modules please see the law entry on page 84.

Careers

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 85.

Student Profile | **Laura Hegarty**

We are lucky to be taught by some of law's greatest thinkers. The lecturers are always there to help with any issues and I found that very reassuring. The Law School is a community within the wider Trinity one.

The French part of my degree was a huge factor in my choosing Law and French. I am delighted now, as I begin to think about employment opportunities, to have fluency in a second language.

FURTHER INFORMATION

Visit us: See page 85
Law Open Day: See page 23.
www.tcd.ie/law/undergraduate | Tel: **+353 1 896 1125 / 1278** | Email: law.school@tcd.ie
www.facebook.com/TrinityCollegeDublinLaw | **www.tcd.ie/French** | Email: french@tcd.ie | **www.tcd.ie/Germanic_Studies**
Email: germanic@tcd.ie | Tel: **+353 1 896 1373**

Law and Business

COURSE CODES:	TR017
PLACES 2015:	25
POINTS 2014:	570*
DEGREE AWARDED:	LL.B. (Law and Business)

What is Law and Business?

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 has blended in many aspects.

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 course right for you?

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.

Student Profile | **Caoimhe Stafford**

For me, the attraction of Law and Business was the breadth of opportunities it offered. The course itself is incredibly interesting and varied, covering subjects as different as constitutional law and marketing, with scope for specialisation in later years. Beyond the classroom, student life in Trinity is unparalleled, and I have enjoyed delving into several pockets of it. Between debating, organising the Trinity Economic Forum and editing the Trinity Law Review I feel that I could have gone down several different paths, and none of them would have been wrong for me. Law and Business gave me the platform to forge my own path.

Why study Law and Business at Trinity?

Both the Schools of Law and Business are recognised for their unique and innovative degree programmes and structures. Both schools enjoy a strong international profile, with excellent relationships with Irish and global organisations in both the private and public sectors. During the course, students will have the opportunity to study all of the core modules required by the legal professional bodies, ensuring, if you so wish, that you can seek entry into a legal career both at home and abroad. Trinity's Law School and School of Business are in the world's top 100 and 150 universities for their subjects (QS World University Rankings by Subject 2015). See also Law, page 84.

What will you study?

As a student on this programme, you will take both subjects equally for the first two years. In your final two years you will have the opportunity to concentrate on either subject, or continue with both. Teaching is by lectures and supplemented by seminars and tutorials (small group classes). Emphasis is on student contribution, particularly in seminars and tutorials. In the third and fourth year you will have the opportunity to choose from an extensive range of law and business modules. Innovative teaching and assessment methods are used throughout your four years, comprising amongst many, formal examinations, essays, projects, case notes, mooting; web-based assessment, blog contributions and a clinical legal placement module.

FIRST (JUNIOR FRESHMAN) YEAR

Law: Foundations of Law; Contract and Torts Law.

Business: Introduction to Organisation and Management; Introduction to Economic Policy; and either Mathematics and Statistics or a Language module (French, German, Russian or Polish).

SECOND (SENIOR FRESHMAN) YEAR

Law: Criminal Law; Constitutional Law I and Land law.

Business: Organisational Behaviour; Principles of Marketing; Introduction to Accounting; Introduction to Finance; Introduction to Operations Management and Creative Thinking, Innovation and Entrepreneurial Action.

THIRD AND FOURTH (SOPHISTER) YEARS

Third year students must take two modules in both subjects. The remaining credits may be taken from either or both. In the fourth and final year students may choose to concentrate on one subject or continue with both. The following modules are typically on offer in these years:

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

RELATED COURSES

TR004: Law; page 84
TR018/019: Law and French/German; page 86
TR020: Law and Political Science; page 90
TR080: Bachelor in Business Studies; page 30
TR034: Management Science and Information Systems Studies (M.S.I.S.S.); page 130

Law: EU Law (compulsory in the Junior Sophister year); 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; Current Issues in the Legal Profession; Economic and Legal Aspects of Competition Policy; Employment Law; English Land Law; Environmental Law; Equality Law; European Human Rights; Evidence; Family Law; Food Law; Intellectual Property Law; International Family Law; International Human Rights Law; International Trade Law; Jurisprudence; Legal Philosophy; Media Law; Medical Law and Ethics; Penology; Private Law Theory: Obligations; Public Interest Law; Public International Law; Refugee and Immigration Law; Restitution; Tax Law; Transnational Contract Law; Research Dissertation; Sport and the Law and Broad Curriculum Modules (see page 19).

Business modules

Junior Sophister: Marketing Management; Management Accounting for Business Decisions; Financial and Management Accounting; Introduction to Fixed Income Securities and Alternative Investments; Surveying Finance; Services Management; Digital Technology in Operations; Organisation Theory and Organisational Analysis; Advanced Topics in Organisation Theory and Analysis; Human Resource Management; Business in Society; Innovation; Entrepreneurship and New Venture Development.

Senior Sophister: International Business and the Global Economy; Exploring New Product Development; Financial Reporting and Analysis; Advances in Marketing Theory and Practice; Managing New Product Development; Social Entrepreneurship and Social Innovation: Organisation and Management; Economic Policy and Business History.

If you would like more detailed information on all the modules offered see: **www.tcd.ie/law/undergraduate** and: **www.tcd.ie/business/undergraduate**

Study abroad

In place of your third year in Trinity, students may apply to study abroad on either the Erasmus programme or with a partner university with which we have an exchange programme. Our exchange programmes are hugely popular and are academically and culturally rewarding. Law and Business students can currently apply to spend their year in universities in Rouen, Strasbourg, Uppsala, Madrid, Louvain, Berlin, Tübingen, Mainz, Singapore, Ohio and Queensland.

Further information on the year abroad programme and a list of partner universities can be found at: **www.tcd.ie/Law/undergraduate/study-abroad.php**

Careers

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.

Also; see 'Law degrees and professional qualifications' on page 85.

FURTHER INFORMATION

Visit us: See page 85
Law Open Day: See page 23.
www.tcd.ie/law/undergraduate | Email: law.school@tcd.ie | Tel: **+353 1 896 1125 / 1278**
www.facebook.com/TrinityCollegeDublinLaw | **www.tcd.ie/business** | Tel: **+353 1 896 3705**
www.tcd.ie/business/undergraduate/student-testimonials

Law and Political Science

COURSE CODES:	TR020
PLACES 2015:	20
POINTS 2014:	555*
DEGREE AWARDED:	LL.B. (Pol. Sc.)

What is Law and Political Science?

The two disciplines of Law and Political Science are intrinsically linked and directly impact every aspect of our daily lives. The role and power of the constitution and judiciary, human rights and international law, the impact of the EU and Irish law are best understood when both subjects are considered. This course provides the opportunity to learn about Law and Political Science and better understand their relation to each other.

Is this the right course for you?

If your career or intellectual interests in politics and public service would be strengthened by a knowledge of the law or you are interested in pursuing a legal career and want your study of law to be informed by a wider political understanding, then Law and Political Science may be the course for you. During the four years of studies, students will also have the opportunity to study all of the core subjects required by the legal professional bodies.

Why study Law and Political Science at Trinity?

Both the Department of Political Science and the Law School place great emphasis on innovative thinking and independent thought. We offer a wide-range of research-led modules in the final two years of the programme thus affording you the opportunity to focus on your developing area of interest. Both the Political Science and Law areas are small in size, compared to other universities, however, this fosters a supportive and close relationship with the student body and a number of student societies and publications, notably the Law Society, Free Legal Advice Centre (FLAC), Trinity Law Review, the Eagle Gazette, the Hist and the Phil.
See also Law, page 84.

What will you study?

As a student on this programme, you will take both subjects equally for the first three years. In your fourth year you will have the option to concentrate exclusively on either subject, or continue with both. Teaching is by lectures and supplemented by seminars and tutorials (small group classes). Emphasis is on student contribution, particularly in seminars and tutorials. In the third and fourth year you will have the opportunity to choose from an extensive range of Law and Political Science modules. Innovative teaching and assessment methods are used throughout your four years, comprising amongst many, formal examinations, essays, case notes, mooting, web-based assessment, blog contributions and a clinical legal placement module.

FIRST (JUNIOR FRESHMAN) YEAR
Law: Foundations of Law; Contract; and Torts Law.

Political Science: Introduction to Political Science; Introduction to Economic Policy and Introduction to Sociology.

SECOND (SENIOR FRESHMAN) 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 19).

THIRD AND FOURTH (SOPHISTER) YEARS
Third year students take an equal number of modules (or credits) from both Law and Political Science. In the fourth and final year students may choose to concentrate on one subject or continue with both. The following modules are typically on offer in these years:

Law: EU Law (compulsory in the Junior Sophister year); 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; Current Issues in the Legal Profession; Economic and Legal Aspects of Competition Policy; Employment Law; English Land Law; Environmental Law; Equality Law, European Human Rights; Evidence; Family Law; Food Law; Intellectual Property Law; International Family Law; International Human Rights Law; International Trade Law; Jurisprudence; Legal Philosophy; Media Law; Medical Law and Ethics; Penology; Private Law Theory: Obligations; Public Interest Law; Public International Law; Refugee and Immigration Law; Restitution; Tax Law; Transnational Contract Law; Research Dissertation, Sport and the Law and Broad Curriculum modules (see page 19).

RELATED COURSES

- TR004: Law, page 84
- TR018/019: Law and French/German, page 86
- TR017: Law and Business, page 88
- TR012: History and Political Science, page 74
- TR015: Philosophy, Political Science, Economics and Sociology, page 98
- TR081: B.E.S.S., page 32

Political Science: Research methods; Irish Politics; Democracy and Development; European Union Politics; Research seminar; Political Parties; Contemporary International Relations; Topics in Political Science; African Politics and Chinese Politics.

If you would like more detailed information on all the modules offered, see: **www.tcd.ie/law/undergraduate** and: **www.tcd.ie/political_science/undergraduate/module-outlines**

Study abroad

In place of your third year in Trinity, you may apply to study abroad on either the Erasmus programme or with a partner university with which we have an exchange programme. Our exchange programmes are hugely popular and are academically and culturally rewarding. Law and Political Science students can currently apply to spend their year in universities in Helsinki, Paris, Strasbourg, Bologna, Berlin, Tübingen, Mainz, Singapore, Canberra and Queensland.

Further information on the year abroad programme, and a list of partner universities, can be found at: **www.tcd.ie/Law/undergraduate/study-abroad.php**

Careers

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.

Law degrees and professional qualifications

See page 85.

Student Profile | Louise Mulrennan

It is very difficult to sum up what I love most about Trinity – from the beautiful historic surroundings and inner city location, to the bright and diverse people I meet every day, to the wide range of societies and clubs anyone can join and indeed, the Broad Curriculum in the Law and Political Science degree, University life never stops moving!

The subject matter, hours and high quality teaching ensure that lectures are relatable, stimulating and accessible for all. It is a course which attracts bright, articulate and diverse people year in year out. The small group size naturally creates a solid foundation for friendships that I know will last well beyond the walls of Trinity.

FURTHER INFORMATION

Visit the Law School: See page 85.
If you are considering studying for the Law and Political Science degree at Trinity but want to be sure, you are most welcome to sit in on a first year lecture. If you would like to avail of this opportunity, please contact us by email to arrange a visit.
Law Open Day: See page 23.
www.tcd.ie/law/undergraduate | Email: law.school@tcd.ie | Tel: **+353 1 896 1125 / 1278**
www.facebook.com/TrinityCollegeDublinLaw | **www.tcd.ie/political_science/undergraduate**
Tel: **+353 1 896 1651** | **www.tcd.ie/political_science/undergraduate/testimonials**

Music

COURSE CODES:	TR002	TR001 (TSM)
PLACES 2015:	15	20
POINTS 2014:	390	415-570* (see page 29)
DEGREE AWARDED:	B.A.	B.A.

What is Music?

Music is a discipline that stretches back to the ancient world. One of the seven original liberal arts, music maintains a place in the University as a subject of broad and passionate interest to composers, sound artists, musicologists, performers, technologists, and theorists.

Is this the right course for you?

Studying music will allow you to engage with a range of traditions to acquire a profound understanding of how music works in theory and in creative practice. If you are interested in understanding music's place in society, developing music technology skills, writing music, or improving your skills as an informed performer, this course could be for you. A music degree will prepare you for a wide range of careers, in the creative arts, journalism, music production, arts management, research, and teaching.

Why study Music at Trinity?

Trinity's Music Department is Ireland's oldest and most internationally renowned venue for the study of music. With a distinguished team of academics and practitioners, the department attracts Irish and international students of the highest calibre. Alumni include Derek Bell, harpist in the Chieftains; Niall Doyle, Head of Music at the Arts Council; Deborah Kelleher, Director of the Royal Irish Academy of Music; and Donnacha Dennehy, Assistant Professor of Music at Princeton University.

Student Profile | **Eileen Hogan**

Being from Galway, obtaining a university music degree locally wasn't an option. I am very glad that I chose Trinity for music studies. Since day one I have found the faculty inspiring, supportive, and willing to help. The course has allowed for many incredible opportunities that have aided my personal and musical development, including directing the music department's chamber choir, The Campanile Consort, and attending seminars in Oxford University. Most recently, I have been granted a scholarship from Indiana University which will allow me to continue my studies with an MA in Musicology in the US.

Our curriculum integrates practical musicianship with rigorous scholarship. We offer a balanced musical education that provides specialisation in three key areas – composition, music technology, and musicology (the historical and analytical study of music). The course includes a wide range of options, allowing students to focus on their chosen areas of interest. A particular strength is the department's commitment to small group teaching, with many subjects taught in groups of ten students or fewer.

The facilities in the Music Department include a recital room, practice rooms, computer workstations, a recording studio, listening equipment, and a substantial lending collection of CDs and videos.

Since the Music Department became part of the School of Drama, Film, and Music in 2006 it has developed interdisciplinary connections, which include a jointly-taught undergraduate module in film production. Music is closely affiliated with the University-wide research theme of Creative Arts Practice. The department hosts the university's Music Composition Centre and collaborates with the Lir (National Academy of Dramatic Art), as well as Trinity's Arts and Technology Research Lab.

In 2013, the Royal Irish Academy of Music became an Associate College – a move designed to facilitate the development of an internationally renowned centre of excellence in performing arts. 2015 marked the appointment of Professor Jane Alden as Chair of Music, and a renewed commitment to social engagement and educational outreach.

What will you study?

The single honour and two-subject courses (TSM) provide a thorough grounding in the basic skills of musicianship and academic study. Students receive extensive training in aural and keyboard skills, learn the history and theory of art music from the medieval period to the present day, and choose modules in jazz, rock, popular, vernacular, and world music. Taught performance modules (e.g. conducting) allow students to contextualise their practical skills. In the specialisations (composition, music technology, and musicology), students are closely supervised in their chosen area. Students may continue to take modules outside of their specialisation. All students complete a final year 'capstone' project.

Many musical activities take place on campus. In addition to performance opportunities, students can gain experience in arts administration, music production, and interdisciplinary collaborations. Many students come from non-classical backgrounds.

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

TR001 – **Music (TSM) must be combined with one other TSM subject.** An honours degree is awarded in both subjects. For subjects that combine with Music see page 28.

This is a restricted entry course. Applications must be submitted by 1 February 2016

Applicants will be required to attend an entrance examination, provisionally scheduled for 2 April 2016.

Specimen examination papers are available for download from the Music Department website: **www.tcd.ie/Music**

SPECIAL ENTRY REQUIREMENTS

Though desirable, 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.

RELATED COURSE

TR009 – Music Education, page 94

FIRST (JUNIOR FRESHMAN) YEAR
Aural Training, History of Music, Introduction to Harmony, Introduction to Music Analysis, Keyboard Skills, Rudiments and Counterpoint, Style and Presentation.

SECOND (SENIOR FRESHMAN) YEAR
The continuation of subjects from first year, and the addition of Instrumentation, Beginning Exploration of Specialist Area – Composition, Musicology, or Music Technology. Single honours students will also select a Broad Curriculum course (see page 19); TSM students have a wide range of options.

THIRD AND FOURTH (SOPHISTER) YEARS
Concentrated study in chosen specialisations, with possible options from other specialisations. Students can present a recital for up to 10% of their degree.

Recent options have included: Advanced Aural, Bob Dylan, Byrd and the Politics of Polyphony, Counterpoint and Fugue, Experimental Theatre and Contemporary Opera, Figured Bass, Film Music, Handel and the English Oratorio, Heavy Metal, Japanese Music, Java Programming, Nineteenth-Century German Lied, Rock Music History, and Sonata Structures.

In their specialisations, composers develop a variety of techniques; music technologists engage in theory and studio practice; and musicologists address history, culture, and theoretical subjects. Capstone projects take the form of, respectively, a portfolio of compositions, a major technology project, or a dissertation. More detailed information is available at: **www.tcd.ie/music/undergraduate/ba-music.php**

Study abroad

Music students can apply to study abroad in European universities with the Erasmus programme (e.g., Royal Holloway University of London) and non-EU universities (University of Toronto, Peking University) via University-wide exchanges. The Department of Music is in the process of forming a partnership with a leading university in Malaysia.

Music students who study abroad find the experience hugely enjoyable, academically and culturally rewarding, and of value to prospective employers. Further information on study abroad can be found at: **www.tcd.ie/study/non-eu/study-abroad/from-trinity**

Careers

The employment record for Trinity's graduates in Music is excellent. Recent alumni have established successful careers as composers, music producers (for television, radio, or recording companies), performers, conductors, administrators, teachers, and academics in institutions worldwide. Several recent graduates have been commissioned by organisations such as RTÉ. Trinity Music students have an outstanding record of obtaining scholarships for further study abroad as well as from the Arts Council of Ireland. Some have used the analytical and intellectual skills that a Music degree offers to build successful careers in medicine, law, financial investment, and public relations.

FURTHER INFORMATION

www.tcd.ie/music

Visit us: Anyone considering studying Music is welcome to visit the department, to sit in on lectures, to speak to members of staff, and to meet current students. To make an appointment, contact the Music Executive Officer on +353 1 896 1120 or at: musicsec@tcd.ie. Office hours are 10.00-16.30, Monday to Friday.

Music Education

COURSE CODES:	TR009
PLACES 2015:	10
POINTS 2014:	445
DEGREE AWARDED:	B. Mus. Ed.

What is Music Education?

This degree is designed to provide for the academic, artistic and professional requirements of those wishing to study to become music teachers at secondary school level (including Northern Ireland). The degree is taught in partnership with the Royal Irish Academy of Music and the Dublin Institute of Technology Conservatory of Music and Drama. Students registering for the course in September 2016 will study at Trinity and at the Royal Irish Academy. Students beginning the course in 2017 will study at Trinity and at the DIT Conservatory of Music and Drama.

This four-year programme will equip you with a high standard of instrumental/vocal performance as well as with an associated competence in related music skills i.e. conducting, keyboard skills and ensemble 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.

The majority of subjects are based on the traditions and practices of classical (or art) music, from the medieval period to the present day. However, there are regular lectures in other musical traditions, including Irish traditional music, jazz, contemporary and popular music. Students currently on the course come primarily from either a classical or a traditional Irish music background. The School of Education at Trinity has forged strong links with the Irish traditional music culture and with renowned musicians of this genre.

Is this the right course for you?

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

Graduate Profile | **Lynsey Callaghan**

I loved the B.Mus.Ed. and was proud to be on the course, I didn't fully understand how amazing the course is until now! It is so comprehensive and afforded me so many experiences. Now being in the 'real world' and looking for jobs, I have an invaluable amount of experience. I believe it is an all-encompassing music degree which produces musician-teachers, with both identities developed in tandem, something that I am only now beginning to fully appreciate. How amazingly lucky we were to have been a part of the course.

Whether your interests are primarily academic or practical, your experience of this vast and rich discipline will be greatly advanced. As an academic study, music fosters independence of thought, creativity, critical and analytical skills, and intellectual awareness. You will also have plenty of opportunity to perform music and conduct ensembles.

Why study Music Education at Trinity?

Trinity is the only university in Ireland which offers the opportunity to study both music and education, concurrently, to honours degree level (level 8) leading to a professional qualification in post-primary teaching which is accredited by The Teaching Council of Ireland. One of the strengths of the Music Education course in Trinity is the commitment to individual and small group teaching.

The facilities in the associated colleges include recital rooms, practice rooms with pianos, music studios, excellent listening equipment, and a substantial lending collection of CDs and videos. The staff at the RIAM have a wide range of experience in vocal and instrumental music, composition, music technology and musicology. The staff at Trinity's School of Education have a wide range of expertise in all aspects of education including education research, the psychology of education, philosophy of education, sociology of education and music pedagogy.

As a student at Trinity you will have access to the largest research library in Ireland.

What will you study?

A basic feature of the course is personal development in music, supporting the ability to awaken 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 individual goals for all, including the exceptionally gifted. Supervised school placement in all aspects of classroom teaching both at primary and post-primary levels is provided, in addition to instrumental/vocal practice.

In addition to individual instrumental/vocal tuition, there are approximately fifteen hours of lectures per week, comprising music and education.

SPECIAL ENTRY REQUIREMENTS

This is a restricted entry course. Applications must be submitted by 1 February 2016.

Applicants will be required to attend an entrance examination, provisionally scheduled for 2 April 2016.

Specimen examination papers are available for download from the Music Department website: **www.tcd.ie/music**

On the basis of the examination results, successful applicants will be called to attend for interview during April/May. Final selections are made at this point. Music performance will feature as one element of the interview. See page 223 for further details.

Students will be required to undergo Garda vetting, see page 219 for further details.

RELATED COURSE

TR002: Music, page 92

MODULES

- Instrumental/Vocal Performance – individual tuition
- Ensemble
- 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 School Placement
- Applied Psychology in Education
- Educational Philosophy and Theory
- Sociologies of Education
- Assessment & Examinations in Post-Primary Education
- History of Education
- Educational Issues
- Research Methods in Music Education

ASSESSMENT

A combination of continuous assessment, practical and written examinations and teaching practice makes up the assessment. Modules are examined by a combination of continuous assessment including essays, portfolios, individual and group presentations, and the formal end-of-year examination.

Study abroad

There are opportunities for students to spend part of the second year studying abroad. Our partner institutions are the Royal Conservatoire of Scotland and the Kodaly Institute, Kecskemét, Hungary. We are negotiating a partnership with the Sibelius Academy in Helsinki. Our exchange programmes are highly successful and are an extremely popular option for Music Education students each year. Participating students find that the Erasmus experience is hugely enjoyable, academically and culturally rewarding and a valuable asset to prospective employers.

Careers

This is a professional degree accredited by the Teaching Council of Ireland. Graduates have an excellent employment record. Most graduates go on to post-primary teaching, many garnering reputations as inspirational music teachers; others choose instrumental teaching both privately and in conservatoires. Graduates also 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 primary, post-primary and third-level teaching posts in Ireland, in countries throughout Europe, and in the USA, China and Singapore.

FURTHER INFORMATION

Visit us: 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 CODE:	TR005	TR001 (TSM)
PLACES 2015:	20	43
POINTS 2014:	435	430*-570* (see page 29)
DEGREE AWARDED:	B.A.	B.A.

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.

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.

Why study Philosophy at Trinity?

Our Department is small and student-friendly while offering a world-class programme in philosophy. All lecturing staff are scholars who have published widely in their specialisms. We teach courses which have both systematic and historical emphases and in the higher years students can choose options and get to write a thesis on a topic of their own choice. Trinity Philosophy students have regularly won prizes at the International Undergraduate Awards competition and also have gone on to the major graduate programmes in the world. There is a lively student society, the Metafizz, which offers the opportunity of combining social activities with philosophy

What will you study?

The Philosophy course is designed 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 support you to think independently.

TR001 – Philosophy (TSM) must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with Philosophy see page 28.

FIRST AND SECOND (FRESHMAN) YEARS
In the first two years, 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 programme, where Philosophy is studied with another subject, there are approximately five hours of classes per week; with double that for the single honour programme.

THIRD AND FOURTH (SOPHISTER) YEARS
In the final two years, 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 is by means of both essays and formal examinations with equal importance given to both. In fourth year, you will research and write a dissertation.

For more detailed information on all the modules offered, see:
www.tcd.ie/philosophy/undergraduate/course-outlines

Study abroad

Students have attended a wide variety of universities in different countries, generally in their second year. As we do not require students to attend a specific university, there is a great choice available (students choose a university in consultation with teaching staff).

Further information on the year abroad programme, and a list of partner universities, can be found at:

www.tcd.ie/philosophy/undergraduate/international

Careers

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.

Student Profile | **Sarah O'Gorman**

Philosophy requires an open mind and involves the inquiry into nature and reality, knowledge and values with the use of logical reasoning and argument. I was attracted to the Philosophy degree at Trinity because it offered an expansive introduction into numerous philosophical disciplines. One of the main appeals of the course is that you learn not to expect any straight answers but through reasoning you can regularly be enlightened all the same. Being a relatively small department means that all the staff became well-known, extremely approachable and one can see that they are chosen for their passion and knowledge in their specialised area.

FURTHER INFORMATION

www.tcd.ie/philosophy/undergraduate | Email: ucmpbell@tcd.ie | Tel: **+353 1 896 1529**
Visit us: If you are considering studying for a Philosophy degree at Trinity but want to be sure, you are most welcome to attend first and second year lectures. Contact us by email (see above) to arrange a visit.

Philosophy, Political Science, Economics and Sociology (P.P.E.S.)

COURSE CODE:	TR015
PLACES 2015:	34
POINTS 2014:	540
DEGREE AWARDED:	B.A.

What is Philosophy, Political Science, Economics and Sociology?

Philosophy, Political Science, Economics and Sociology (P.P.E.S.) enables students to study four subjects that are central to understanding any society. 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 social and human issues need to be approached from different but interrelated viewpoints. For example, political decisions often concern economic matters, and government decisions are often influenced by economic events.

Is this 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.

Why study P.P.E.S. at Trinity?

The P.P.E.S. programme is the only university degree in Ireland where students can combine the study of Philosophy, Political Science, Economics and Sociology. Trinity's School of Social Sciences and Philosophy – where the P.P.E.S. degree finds its home – is at the forefront of research and teaching across the disciplines of Philosophy, Political Science, Economics and Sociology and is Ireland's top ranked university in all four subjects (QS World University Rankings by Subject 2015).

Trinity has an international reputation for its research on issues of global societal and economic importance such as migration, development, international macroeconomics and political and economic integration in Europe. Our students benefit from a research-led education which exposes them to world-class academics who are committed to providing rigorous, interesting and challenging courses.

What will you study?

FIRST (JUNIOR FRESHMAN) YEAR
In 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).

SECOND (SENIOR FRESHMAN) YEAR
In 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 International Politics, to an Introduction to Social Research.

THIRD AND FOURTH (SOPHISTER) YEARS
In third year you take two of the four subjects and in fourth year you may take either two subjects or choose to specialise in only one. Students pursuing the equivalent of single honour 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.

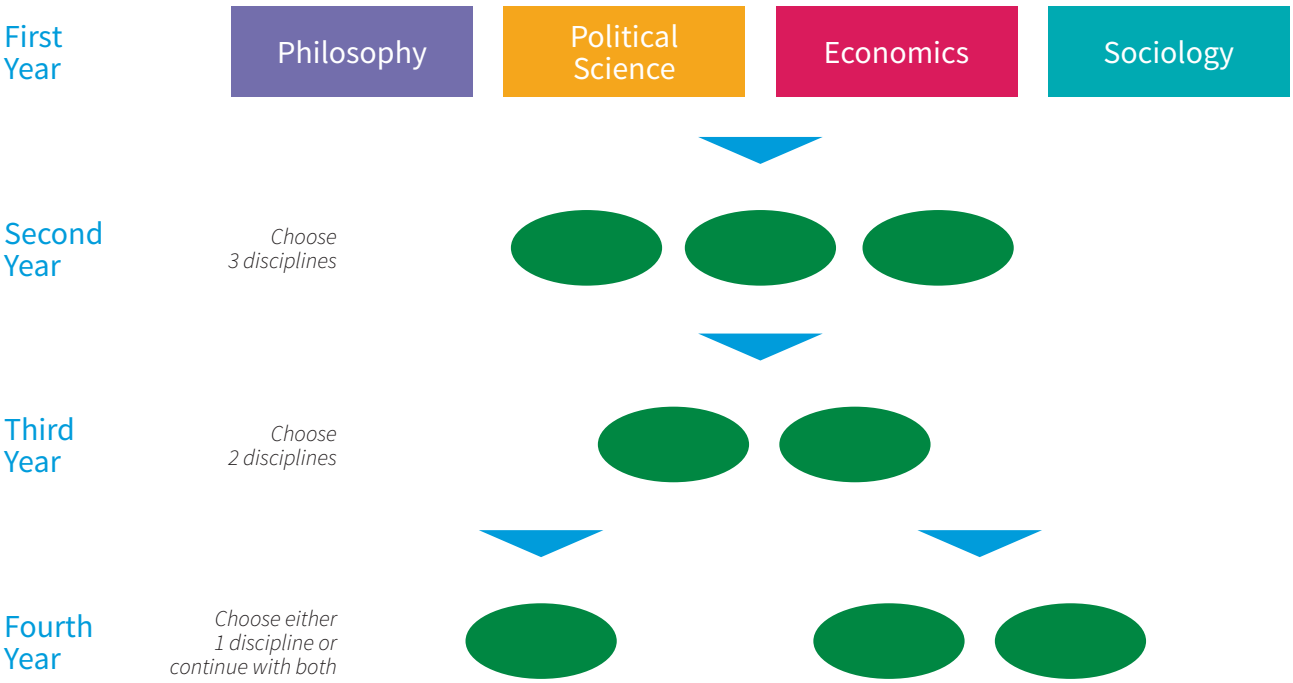
SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	OC3/HD3	Mathematics
GCSE	Grade B	Mathematics

RELATED COURSES

TR001: TSM, page 28
TR005: Philosophy, page 96
TR012: History and Political Science, page 74
TR020: Law and Political Science, page 90
TR029: Political Science and Geography, page 104
TR081: B.E.S.S., page 32
TR083: Sociology and Social Policy, page 118

P.P.E.S. Degree Structure



Philosophy, Political Science, Economics and Sociology (P.P.E.S.)

P.P.E.S. 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	▸ Logic, Language and Science ▸ History of Philosophy	▸ 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	▸ Ancient Philosophy ▸ Ethics ▸ Refutations of Idealism ▸ Metaphysics ▸ Philosophy of Language ▸ Epistemology ▸ Post-Kantian Philosophy ▸ Meaning of Life ▸ Philosophy Dissertation ▸ General Paper
Political science	▸ History of Political Thought ▸ International Relations ▸ Comparative Politics	▸ Research Methods for Political Scientists ▸ Irish Politics ▸ Democracy and Development ▸ European Union Politics ▸ Representation and Public Opinion	▸ Research Seminar ▸ Contemporary Political Theories ▸ Chinese Politics ▸ Issues in Contemporary Politics ▸ Contemporary International Relations ▸ African Politics ▸ Topics in Political Science
Economics	▸ Intermediate Economics ▸ Mathematics and Statistical Methods ▸ Economy of Ireland ▸ Economics of Public Policy	▸ Economic Analysis ▸ Money and Banking ▸ The European Economy ▸ Economics of Less Developed Countries ▸ Investment Analysis ▸ Economics of Policy Issues ▸ Industrial Economics ▸ Mathematical Economics ▸ Econometrics	▸ Economic Theory ▸ Economics of Financial Markets ▸ The World Economy ▸ International Economics ▸ Quantitative Methods ▸ Development Economy ▸ Economic and Legal Aspects of Competition ▸ Econometrics ▸ Applied Economics ▸ Economics Dissertation
Sociology	▸ Gender, Work and Family ▸ European Societies ▸ Introduction to Social Research ▸ Power, State and Social Movements	▸ Social Theory ▸ Globalisation and Development ▸ Researching Society ▸ Social Inequality ▸ Race, Ethnicity and Identity	▸ Economic Sociology of Europe ▸ Conflict Studies ▸ Digital Lives and Social Networks ▸ Migration ▸ Dissertation

The table 'P.P.E.S. at a glance' (see above) gives you a sense of the richness and diversity of modules that are available within P.P.E.S. in the second, third and fourth years.

P.P.E.S. is an extremely flexible degree which allows gradual specialisation over the course of the four-year programme. Students have a great deal of choice and flexibility in shaping their degree pathway. Ten different degree options are available. For example, in third year you could opt to take both Economics and Philosophy or both Political Science and Sociology or any combination of these four disciplines.

If you would like to find out more detailed information on all the modules offered, please visit:
www.tcd.ie/ssp/undergraduate/ppes/course-structure/module-outlines

Study abroad

In 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 Erasmus programmes in Europe, the four P.P.E.S. departments also have bilateral links with leading universities across the world. Our exchange programmes are an extremely popular option for students each year. Participating students find that they are hugely enjoyable, academically and culturally rewarding, and that it is a valuable experience in terms of prospective employment.

Further information regarding the year abroad programme, and a list of partner universities, can be found at: **www.tcd.ie/ssp/undergraduate/ppes/course-structure/exchange-students**

Careers

From a career perspective, Trinity graduates are extremely well regarded worldwide. P.P.E.S. students develop exceptional problem solving and critical thinking skills which are highly sought after by employers. P.P.E.S. students also develop insights and expertise, across a range of disciplines, which enable them to pursue careers in fields as varied as management, research, teaching, journalism, international affairs, public policy and public service. The link below gives information on the career paths taken by our graduates.

Many P.P.E.S. graduates have gone on to postgraduate study both at Trinity and at other leading universities around the world such as University College London, the University of Edinburgh and the College of Europe.

www.tcd.ie/careers/resources/publications

Student Profile | **Alan Walsh**

I found the initial broad subject range extremely useful as it meant I could gain an overview of the social sciences and obtain experience in various different fields before specialising in the later years.

FURTHER INFORMATION

www.tcd.ie/courses/ppes | Email: ppes@tcd.ie | Tel: **+353 1 896 1840**
Student profiles: see the prospective students section on: **www.tcd.ie/courses/ppes**

Political Science

What is Political Science?

Political Science is the study of governments, public policies and political behaviours.

Politics affects us all in our daily lives. It is easy to think of issues that we all have opinions about. Should the government tax the rich to try to achieve greater equality? Should it introduce 'green taxes' in order to protect the environment? How high a priority should development aid be? Questions such as these, along with analysis of political systems, political behaviour, international relations and how democracy works, are at the heart of the study of political science.

The study of politics as an academic subject involves, among other things, thinking about how these decisions get made. If it is not possible to keep everyone happy, whose views should prevail and why? If governments do not always make what seems to be the most 'rational' decision on economic policy, why not? How much say do ordinary people have in policy-making, and is it feasible to make the decision-making process more open? Other big questions we study, include issues such as: why don't democracies go to war with each other? Why do civil wars last so long and why are ethnic conflicts more difficult to resolve then other forms of conflict?

Is this the right course for you?

Political Science will appeal to students who are excited about exploring the background to current events, the nature and use of power and how decisions are made that impact on wider society.

If you are interested in having an in-depth knowledge of public affairs, developing critical and much sought after research skills and if your career interests lie in journalism, public service, teaching, public policy, international organisation and/or business then Political Science may be for you.

Why study Political Science at Trinity?

Trinity is ranked 10th in Europe in Politics and International Studies (QS World University Rankings by Subject 2015). Political Science has been an important part of the curriculum since 1855 and Trinity has developed an international reputation for its research work on the European Union, comparative politics, comparative public opinion, international relations as well as democracy and development.

Political Science may be studied in five degree programmes:

- History and Political Science
- Philosophy, Political Science, Economics and Sociology (P.P.E.S.)
- Law and Political Science
- Political Science and Geography
- Business, Economics and Social Studies

What will you study?

Please see the individual course descriptions for History and Political Science; Philosophy, Political Science, Economics and Sociology (P.P.E.S.); Law and Political Science; Political Science and Geography; and Business, Economic and Social Studies (B.E.S.S.).

ASSESSMENT
Courses are examined by a combination of assessed essays and formal examination. Normally, each course has two hours of lectures and one tutorial per week.

In fourth year, students specialising in Political Science will have the opportunity to research and write up a dissertation on a topic of their choice. Final year classes are typically run as small group seminars.

FIRST (JUNIOR FRESHMAN) YEAR
Introduction to Political Science, Introduction to Sociology, Introduction to Economics

SECOND (SENIOR FRESHMAN) YEAR
History of Political Thought, International Relations, Comparative Politics

THIRD AND FOURTH (SOPHISTER) YEARS
The following is a list of the modules typically on offer:

Research Methods, Irish Politics, Democracy & Development, European Union Politics, Political Parties, Contemporary International Relations, African Politics, Chinese Politics.

If you would like more detailed information on all the modules offered, please visit: **www.tcd.ie/political_science/undergraduate/module-outlines/**

Political Science may be studied through five degree programmes:

TR012 History and Political Science, page 74
TR015 Philosophy, Political Science, Economics and Sociology (P.P.E.S.), page 98
TR020 Law and Political Science, page 90
TR029 Political Science and Geography, page 104
TR081 Business, Economic and Social Studies (B.E.S.S.), page 32

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, the University of Bologna and University of Mannheim. Students taking Political Science as a subject in joint honours may also go abroad on an exchange administered by other departments, 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 B.E.S.S. programme.

In addition there are opportunities for students to go on one of several international exchanges. These are open to all students on a University-wide basis.

Further information on student exchanges can be found at: **www.tcd.ie/study/non-eu/study-abroad/from-trinity/college-exchanges**

Careers

There are careers for which a demonstrated interest in politics and advanced research skills are a definite plus and will give you a real head start. Journalism, finance, the civil service, public relations, business, and work in international organisations and not-for-profit organisations, all come into this category. A demonstrated knowledge of how the world works is obviously an asset for many types of career. In addition, Political Science students develop exceptional communication, writing and critical thinking skills which are highly sought after by employers. An increasing number of graduates go on to do further postgraduate study.

Student Profile | **Éamonn Fahey**

The Political Science Department provided me with an exceptional academic experience. Over my four years of study, I developed a well-rounded understanding of the subject. With the country's best resourced library, a vast online academic infrastructure and a department staffed by world leading academics, the University really helped develop my capabilities as a political scientist. I would recommend the department to any student with an interest in social science looking to begin a challenging and rewarding journey.

FURTHER INFORMATION

www.tcd.ie/political_science | **www.tcd.ie/political_science/undergraduate** | Tel: **+353 1 896 1651**
Student profiles: **www.tcd.ie/political_science/undergraduate/testimonials/**

Political Science and Geography

COURSE CODE:	TR029
PLACES 2015:	15
POINTS 2014:	485
DEGREE AWARDED:	B.A.

What is Political Science and Geography?

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.

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 significant in solving the problems of the future, such as adaptation to climate change in the developing world.

Is this the right course for you?

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 then, this may be the course for you.

Why study Political Science and Geography at Trinity?

The Departments of Political Science and Geography have some of the foremost scholars and lecturers in their field who are committed to providing cutting edge research and teaching.

The Department of Political Science is one of the top political science departments in Europe. In the 2014 QS rankings it was ranked 1st in Ireland, 10th in Europe, and 33rd in the world. Political Science has been an important part of the curriculum since 1855 and Trinity has developed an international reputation for its research work on the European Union, comparative politics, comparative public opinion, international relations as well as democracy and development

Geography at Trinity is a world leading department, ranked in the top 100 in the world (by the QS World University Rankings by Subject 2015). Staff have received major research grants from the European Research Council, United States National Science Foundation and many others. The department delivers an exciting curriculum which covers topics from global sustainability to the landscapes of Mars, delivered by world leading experts in their fields. Students also have the opportunity to undertake overseas fieldwork, in Mallorca, for example, to study overseas and to undertake substantial (guided) independent research projects. One first year student noted "It was the right choice as it is challenging and engaging because of its applicability to current affairs".

What will you study?

In the first two years you will take twelve modules that will each require attendance, on average, of two hours of lectures and one tutorial per week.

FIRST (JUNIOR FRESHMAN) YEAR
In first year you will study three geography modules, covering Introduction to Geography I (Physical), Introduction to Geography II (Human-Physical Environment Interface) and Introduction to Geography III (Human). You will also study three political science modules covering Introduction to Political Science, Introduction to Sociology and Introduction to Economic Policy.

SECOND (SENIOR FRESHMAN) YEAR
In second year you will study three geography modules covering Physical Geography, Human Geography and Geography seminars, and three political science modules covering Comparative Politics, International Relations, and the History of Political Thought.

All first and second year modules are mandatory.

THIRD (JUNIOR SOPHISTER) YEAR
In third year students take each subject equally. On the geography side, modules are drawn from a list of options available on: **www.tcd.ie/geography**. For those students planning to continue geography in fourth year as their sole subject, Advanced Research Methods in Geography is compulsory. On the political science side, students may take any three options. See: **www.tcd.ie/political_science/undergraduate/module-outlines** to view the modules currently offered). Students intending to take Political Science as their sole subject in fourth year must take Research Methods for Political Scientists in their third year.

SPECIAL ENTRY REQUIREMENTS

Note: Students may apply to transfer to Geography in the single honours Science (TR071) course for their final two years

RELATED COURSES

TR001: Geography, page 66
TR012: History and Political Science, page 74
TR015: Philosophy, Political Science, Economics and Sociology (P.P.E.S.), page 98
TR020: Law and Political Science, page 90
TR071: Science, page 146
TR081: B.E.S.S., page 32

FOURTH (SENIOR SOPHISTER) YEAR

In fourth year, students may take both subjects equally or one subject alone. There is a reduction in the number of modules required to allow greater depth of study and more independent work.

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 modules offered for fourth year students in Geography and: **www.tcd.ie/political_science/undergraduate/module-outlines/ss/** 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 Czech Republic (Charles University Prague), United Kingdom (Exeter University), France (University of Bordeaux III, and The University of Paris Sorbonne), the Netherlands (University of Utrecht), Sweden (Stockholm University), Poland or Spain.

Participating in these opportunities is dependent upon the exchange fulfilling the course requirements of both departments.

Careers

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.

The varied and exciting career paths of some of our graduates can be found at: **www.tcd.ie/careers/resources/publications**

FURTHER INFORMATION

Email: courseoffice@tcd.ie | Tel: **+353 1 896 1840** | **www.tcd.ie/political_science/undergraduate**
www.tcd.ie/political_science/undergraduate/political-science-geography/

Psychology

COURSE CODES:	TR006	TR001(TSM)
PLACES 2015:	31	17
POINTS 2014:	555	570*
DEGREE AWARDED:	B.A.	

What is Psychology?

Psychology is the study of human behaviour and mental processes. It includes topics such as developmental psychology, perception, learning, motivation, cognitive processes, individual differences and social psychology, and has many of the features of a science course, such as practical work, statistical description and analysis of data and courses on the underlying physiology of the human brain.

Is this the right course for you?

The School of Psychology 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. It is also an applied science that deals with how people act and behave in the real world and provides support for people in their social life and work, for example, through clinical and counselling interventions. If you are interested in the factors influencing human thinking, feeling and behaviour you will enjoy this course.

Why study Psychology at Trinity?

Trinity's School of Psychology is ranked in the world top 100 universities for Psychology in the QS World University Rankings by Subject 2015. As well as offering high-quality teaching, the School collaborates with a number of other disciplines through the Children's Research Centre, the Neuroscience Institute, the Trinity Centre for Global Health, and the Trinity Centre for Innovative Human Systems. Students are encouraged to become actively involved in our ongoing research, particularly in the third and fourth years of their studies.

Graduate Profile | **Sinéad Moylett**

After observing the work of an educational psychologist while working with individuals with autism and from other experiences working with intellectual disabilities, I choose to study Psychology. The broad range of topics that I was able to study on the course, from health psychology to neuroscience, could have prepared me for a number of career paths not just within Psychology, but also in the wider world. I enjoyed my time so much during my undergraduate degree, that when it came to choosing a field in which to complete a PhD, I felt that there was only one real choice.

The single honour degree and the TSM degree (where the student majors in Psychology) both confer eligibility for graduate membership of the Psychological Society of Ireland and provide the basis for entry to postgraduate programmes, such as those in clinical psychology and counselling psychology.

What will you study?

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 the lecture term, single honour students spend approximately 10-12 hours per week (5-6 hours for TSM students) receiving tuition such as lectures, tutorials, seminars and laboratory practicals.

FIRST AND SECOND (FRESHMAN) YEARS

The first and second years of both the single honour and TSM programmes, provide a broad foundation on which more advanced course work is built in the 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 enables 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:

- Foundations of Psychological Thought and Application
- Social Psychology
- Perception
- History of Psychology
- Psychological Disorder
- Developmental Psychology
- Cognition and Language
- Thinking
- Fundamentals of Neuroscience and Behaviour
- Evolutionary Psychology
- Personality and Individual Differences
- Research methods and Statistical Analysis

TR006 – Psychology is a single honour course where psychology is read almost exclusively for four years.

TR001 – **Psychology (TSM) must be combined with one other TSM subject.** TSM is a joint honour programme. For subjects that combine with Psychology see page 28.

You will also be given the opportunity to take a module/modules from the Broad Curriculum options (see page 19).

THIRD AND FOURTH (SOPHISTER) YEARS

By 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 third and fourth year, by choosing modules from a series of advanced options. On completion of the course, students must have taken at least one module from each of five specified thematic areas (Biological, Social, Developmental, Cognitive, and Personality and Individual Differences). The kinds of modules which have been offered within each of these areas include:

Biological

- Neurological Rehabilitation
- Behavioural Neuroscience
- The Brain Throughout the Lifespan
- 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

In fourth year a large part of your workload involves carrying out an independent research project under the supervision of a member of staff. 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 dissertation based on your research project.

Study abroad

Second and third-year undergraduates are eligible to apply to study for one or more semesters (usually 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. international) institution and is accepted by Trinity as if students were examined here. The School of Psychology has bilateral agreements with several European universities, including the University of Helsinki, Freie Universität Berlin, Erasmus University Rotterdam, Université Paris V and Uniwersytet Wroclawski.

Careers

Many psychology graduates proceed to a career in professional psychology through professional training. The School of Psychology itself 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, as well as research M.Sc. and Ph.D. 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.

FURTHER INFORMATION

www.tcd.ie/psychology | Tel: **+353 1 896 1886**

Catholic Theological Studies

COURSE CODES:	TR030	TR001 (TSM)
PLACES 2015:	15	10
POINTS 2014:	310	n/a
DEGREE AWARDED:	B.A.	

What is Catholic Theological Studies?

Catholic Theological Studies is a way of doing theology. Theology engages you with the great questions of human life: Is death the end? What is justice? What is truth? What can we make of evil and suffering in the world? What is the significance of prayer? Is there a God? Why is there war and violence? Why is there an ecological crisis? Can I make a difference? How can I best participate in interreligious dialogue?

These questions and debates have profoundly shaped European society and this degree will enable you to actively participate in addressing these questions and shaping the culture of tomorrow. You will learn the core skills of the theologian – as philosopher, historian and textual and cultural critic. You will read the history of the Christian tradition and study the work of the major thinkers. You will be inspired by their passion and insight. You will study the foundational texts, analysing and critiquing their relevance for dialogue today and you will apply all that has been learned in this tradition to contemporary ethical, political, scientific and artistic concerns.

Is this the right course for you?

If you are interested in some of the most profound questions concerning the Universe, God, humanity and today's world, this is the course for you. We are looking for students with passion, who are willing to engage seriously and with integrity with the important questions of our time.

Our students learn to think rigorously and independently, and they gain skills necessary to become researchers in their own right.

If you want to develop a capacity for clear thinking and logical, informed argument about important and complex issues this may be the course for you.

Student Profile | **Oona Nadler**

As a visiting student from the University of Toronto I found that the Loyola Institute at Trinity is a warm, friendly environment that is conducive to learning. The professors took care to get to know each student and make them feel welcome. A highlight was the Book of Kells module which allowed me to learn about theology and Irish culture from passionate and knowledgeable professors. I would recommend taking classes at Trinity for anyone who wants to study theology in an exciting and unique environment in the heart of Dublin.

The Loyola Institute of Trinity offers a first-rank education in theology which is authentic, international in approach, and which draws on deep roots and diverse backgrounds.

Why study Catholic Theological Studies at Trinity?

At the Loyola Institute at Trinity you will find a lively and welcoming community. Our small classes offer ample opportunity for questions, lively discussion and acquiring the skills of debate and discussion.

The curriculum is designed to enable the student to personally engage rigorously and yet enjoyably with the subject matter and the materials which the course presents. There are frequent opportunities for seminar and discussion participation throughout the curriculum. In this course you are going to encounter words, images, texts, arguments, debates and ideas that will change your life and enable you to participate in shaping the society of the future. Consistent tutorial support provides you with ready access to guidance and advice for all of your four years at Trinity.

The Trinity campus in the heart of Dublin city offers the unique opportunity to visit and learn from significant international collections, such as those held at the Chester Beatty, the National Gallery and the National Museum of Ireland.

Trinity is home to the Book of Kells and in this degree we offer a special study of its marvels from a theological perspective. (See: **www.tcd.ie/loyola-institute/undergraduate/undergraduate/JS13_module.php**)

The staff have worked internationally in universities such as Yale, Edinburgh and Cambridge and also sit on the boards of various educational and not-for-profit organisations.

What will you study?

All students are given a strong foundation in Biblical Studies, Historical Theology, Ethics and Systematic Theology (the study of major theological themes and current questions). World Religions and Philosophy are, of course, amongst the modules studied. There is also an opportunity to take modules in Greek, Hebrew and Latin, should that prove to be a particular interest of yours.

Students may also take a module from outside this course via the Broad Curriculum (see page 19). Students are thus enabled to take modules from a great variety of other disciplines within the University.

TR030 – Catholic Theological Studies is a single honour four year course.

TR001 – **Catholic Theological Studies (TSM) must be combined with one other TSM subject.** An honours degree is awarded in both subjects. For subjects that combine with Catholic Theological Studies see page 28.

RELATED COURSES

TR008/001: World Religions and Theology, page 110

A further distinguishing mark of this degree is its attention to matters of contemporary concern. One of the key current developments in this degree is a module in Theology and Social Justice, taught through "immersion" in non-profit agencies in the city, the country and internationally. Learning to reflect theologically upon these experiences enables students to apply the knowledge and skills gained in the lecture theatre to the wider world.

In the fourth year you will have the opportunity to prepare a research dissertation on a topic of your choice. With the assistance of the lecturers, you will select, investigate and research a theme of theological significance. You will, of course, be taught the research skills to do this successfully and these skills will also be useful in the world of work beyond graduation.

Study abroad

During the third year of the degree programme, we encourage students to gain the experience of studying and living abroad. Erasmus and other inter-EU exchange relationships are in place to facilitate you to live and study at other EU universities including KU Leuven, Heythrop College (University of London) and Durham University. Options for study in the USA and Australia are also currently being developed for our theology students, notably Notre Dame University, Indiana and Australian Catholic University.

Careers

Theology graduates find employment in a variety of different roles in diverse employment sectors. Typical employers include libraries, schools, colleges and Church; public and private sector organisations such as the civil service, financial and legal firms, and general management positions.

Additionally, theology students find opportunities in advertising, human resources (HR), marketing and sales, charities, television companies, social work, journalism, the performing arts and the charity sector.

A significant number of students progress on to postgraduate study.

The degree in Catholic Theological Studies is a new degree offering at universities in Ireland and Studies in the UK and the USA consistently show exceptionally high demand for theology graduates. Theology graduates are world-renowned for being trained to a high degree in not one but many ways of thinking, because theology requires expertise in historical, philosophical, textual, analytical, linguistic and applied methods. It is no surprise then, that theology graduates have an excellent record of finding employment in a wide diversity of fields.

In a changing world and an employment market that increasingly requires a high degree of flexibility employers value the transferable skills of critical thinking, analysis, logical argumentation and the ability to present a complex case coherently and lucidly. These are precisely the skills that are developed in this four year degree in theology.

FURTHER INFORMATION

Email: loyola@tcd.ie | Tel: **+353 1 896 4790**
Hear what our current students have to say about this course and view staff videos at:
www.youtube.com/channel/UCdnzub-BhNL40_ldB945MMg
A meeting with a staff member can be easily arranged by appointment.
www.tcd.ie/loyola-institute | **www.facebook.com/loyolaTCD**

World Religions and Theology

COURSE CODES:	TR008	TR001 (TSM)
PLACES 2015:	15	24
POINTS 2014:	350	385*-570* (see page 29)
DEGREE AWARDED:	B.A.	

What is World Religions and Theology?

World Religions and Theology offers a unique opportunity to approach religion from different perspectives.

Biblical studies will provide you with in-depth knowledge of the origins and transformations of Jewish and Christian monotheisms in their historical and cultural contexts.

Theology investigates the development of Christian self-understanding in its interaction with different cultures and eras. In ethics, principles such as human dignity, autonomy and justice are examined and applied to issues like surveillance technologies, genetic enhancement, and ecological sustainability.

This course includes the monotheistic religions of Judaism, Christianity and Islam, the religions of Asia and Africa, movements such as New Atheism, New Religious Movements and the interaction between religion and politics, science, or art.

Is this the right course for you?

If you have ever wondered why religion continues to shape how many people see, feel, and think about the world, this course will offer different avenues for understanding its vital role for individuals and cultures. Choosing World Religions and Theology will suit you if you have an interest in sources of identity, history and contemporary culture, philosophy and ethics, the role of religious self-understandings and intellectual resources for the current challenges of multi-cultural societies.

Our teaching methods include excursions to museums and religious sites, encounters with "lived religion", the analysis of epoch-making texts from three millennia, case studies and self-directed research.

Why study World Religions and Theology at Trinity?

Established in Trinity since its foundation in 1592, with its professorships belonging to the oldest in the University, the subject areas have been taught in a non-denominational department since 1980. Our current programme engages with the complex roles of religion in an era of globalisation by combining biblical studies, theology and ethics, and the cultural study of religion.

The department is close to vibrant locations relevant to the programme: the Chester Beatty Library with its world renowned collection of biblical, Islamic and Asian religious manuscripts; Marsh's Library with its Huguenot heritage of books; local religious centres and other cultural destinations central to the history of religious traditions.

In our small and diverse department, students and staff are able to get to know each other and discuss themes in religion in a spirit of open and co-operative enquiry. Independence and rigorous thinking are crucial reflective capacities that we strive to foster, from small group work, projects, presentations and essays to the choice of your fourth year dissertation subject.

The Department invites internationally acclaimed speakers for public lectures, and it benefits from the activities of a lively student society, the "Theo", which hosts debates on topical themes.

What will you study?

The programme consists of three strands:

Religious Studies explores religion as an enduring feature of culture and provides the skills and the knowledge to understand how religion affects individuals and societies (Theory of Religion). Drawing on methods from the social and cultural sciences, the cultural study of religion investigates the diversity of religious traditions (World Religions).

Biblical Studies investigates the historical and cultural contexts in which the Bible originated and the intellectual currents with which Early Christianity interacted. Key biblical texts and their histories of interpretation are studied. Students can take a biblical language, equipping them with specific skills required for taught masters and postgraduate research in Biblical Studies.

Theology investigates how key thinkers conceive of God in relation to human reason and freedom, of incarnation and redemption in their significance for reflections on the self, history and human diversity or the relation to science and politics. Ethics studies approaches human agency and responsibility, from the flourishing life in community to principled autonomy and cosmopolitanism.

FIRST (JUNIOR FRESHMAN) YEAR

Three year overview courses are taken jointly by single honour and TSM students: Introduction to World Religions, to Biblical Studies and to Theology. Single honour students also take: Biblical Traditions in Western Art and Culture, and The Qur'an and its History of Reception; Religions in the Ancient Mediterranean, and History of Religions; Introductions to Philosophy and to Theological Ethics.

TR008 – World Religions and Theology is a single honour course.

TR001 – **World Religions and Theology (TSM) must be combined with one other TSM subject.** For subjects that combine with World Religions and Theology see page 28.

RELATED COURSE

TR030: Catholic Theological Studies, page 108

SECOND (SENIOR FRESHMAN) AND THIRD (JUNIOR SOPHISTER) YEAR
From second year onwards, students choose their modules (12 in single honour, 6 in TSM). In second year, students can replace one of them by a Broad Curriculum module (see page 19).

FOURTH (SENIOR SOPHISTER) YEAR
All students write a thesis of 15,000 words with a supervisor chosen from an area they want to specialise in, and also choose four modules.

For a full list and more detailed information on the modules in all four years, see: **www.tcd.ie/religions_theology/undergraduate/handbook**

Study abroad

You can spend up to a year on Erasmus exchange at the universities of Leuven, Belgium or Glasgow, Scotland or at other universities open to Trinity students e.g. Berkeley, Toronto, Melbourne, Singapore.

For further information see 'Study Abroad' at: **www.tcd.ie/religions_theology/undergraduate**

Careers

The programme provides students with capacities that are crucial for all professions where an understanding of cultural processes and of the intellectual resources of religious traditions play a role. Our graduates have excelled in many different professions, notably as a University Vice-President, as Advisory Counsel at the Office of the Attorney General, as Barrister and Chair of the Irish Criminal Bar Association, in the Department of Foreign Affairs, as an RTE multimedia journalist, as publishers, university lecturers, museum curator, in foreign aid as Education Officer of the Bishops' Appeal, as teachers of Religious Education, in international business and insurance, for example as a Catastrophe Analyst, in management positions of migration and of disability support services, in human resources and in health care professions, and as Best Chef at the Metro's Young British Foodies awards.

FURTHER INFORMATION

You are most welcome to attend first and second year lectures. Please contact us by email to arrange a visit.
Student profiles:
www.tcd.ie/religions_theology/about | **www.tcd.ie/religions_theology/alumni**
www.tcd.ie/religions_theology | Email: jwelch@tcd.ie | Tel: **+353 1 896 1297**

Russian

COURSE CODES:	TR001 (TSM)
PLACES 2015:	36
POINTS 2014:	410*-555 (see page 29)
DEGREE AWARDED:	B.A.

Why study Russian?

Russian is the native language of nearly 150 million people and is one of Europe's most important languages. Russia is a significant force in present-day geopolitics and a major player in the global economy, with ties both to Europe and to Asia, and beyond.

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.

Trinity is the only university in Ireland where you have the opportunity to study Russian to degree level, and Trinity is ranked 49th in the world for Modern Languages (QS World University Rankings by Subject 2015).

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.

What will you study?

Most students start Russian as complete beginners, and take an intensive first year language course (with six hours of language classes per week). Special provisions are made for students with prior knowledge of Russian (native, near-native speakers, those who have passed Russian in the Leaving Certificate or have taken another entrance qualification in Russian).

In addition to language study, you will take modules covering aspects of Russian literature, Russian history and Russian culture, society and politics. In later years, you will also have the option to study a second Slavonic language (Polish, Bulgarian or Croatian).

FIRST AND SECOND (FRESHMAN) YEARS

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

- Russian language: these classes help develop fluency in reading, writing, speaking and listening, and build the foundation for more advanced language study in the third and fourth years.
- Russian cultural and literary studies: you will be introduced to central figures and major topics in Russian literary and cultural history. You will progress from reading literary texts mainly in translation to tackling key works by Russian writers in the original Russian.
- Central, East European and Russian area studies: in the first year, you will take a survey course addressing the geopolitical space of Central and Eastern Europe, while in the second year, the focus is exclusively on Russia, when you will follow a course of lectures in Russian on aspects of contemporary Russian society, politics and culture.

In the first and second years there are approximately ten hours of classes per week, divided between language work and literary, cultural and area studies.

THIRD AND FOURTH (SOPHISTER) YEARS

In addition to advanced language study, the 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 more specialised study of Russian literature and culture, history of Russia and the Soviet Union, Russian society and politics, and a second Slavonic language (Bulgarian, Croatian or Polish). 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. Many modules in Russian use an innovative mix of assessment methods including journals, book reviews and dossiers, as well as more traditional essay submissions.

Study abroad

We encourage students to spend a significant period of time in Russia after second or third year (2 months is the minimum period abroad, but often students will take a year out of their course to spend up to a year studying and living in Russia). Trinity has an exchange agreement with Moscow State University as well as close connections with other universities and institutes in Moscow, St. Petersburg and in a number of provincial towns. Study abroad in a Russian-speaking environment is a vital ingredient in developing mastery of your chosen language as well as in gaining a nuanced understanding of the realities of everyday life in Russia.

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 must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with Russian see page 28.

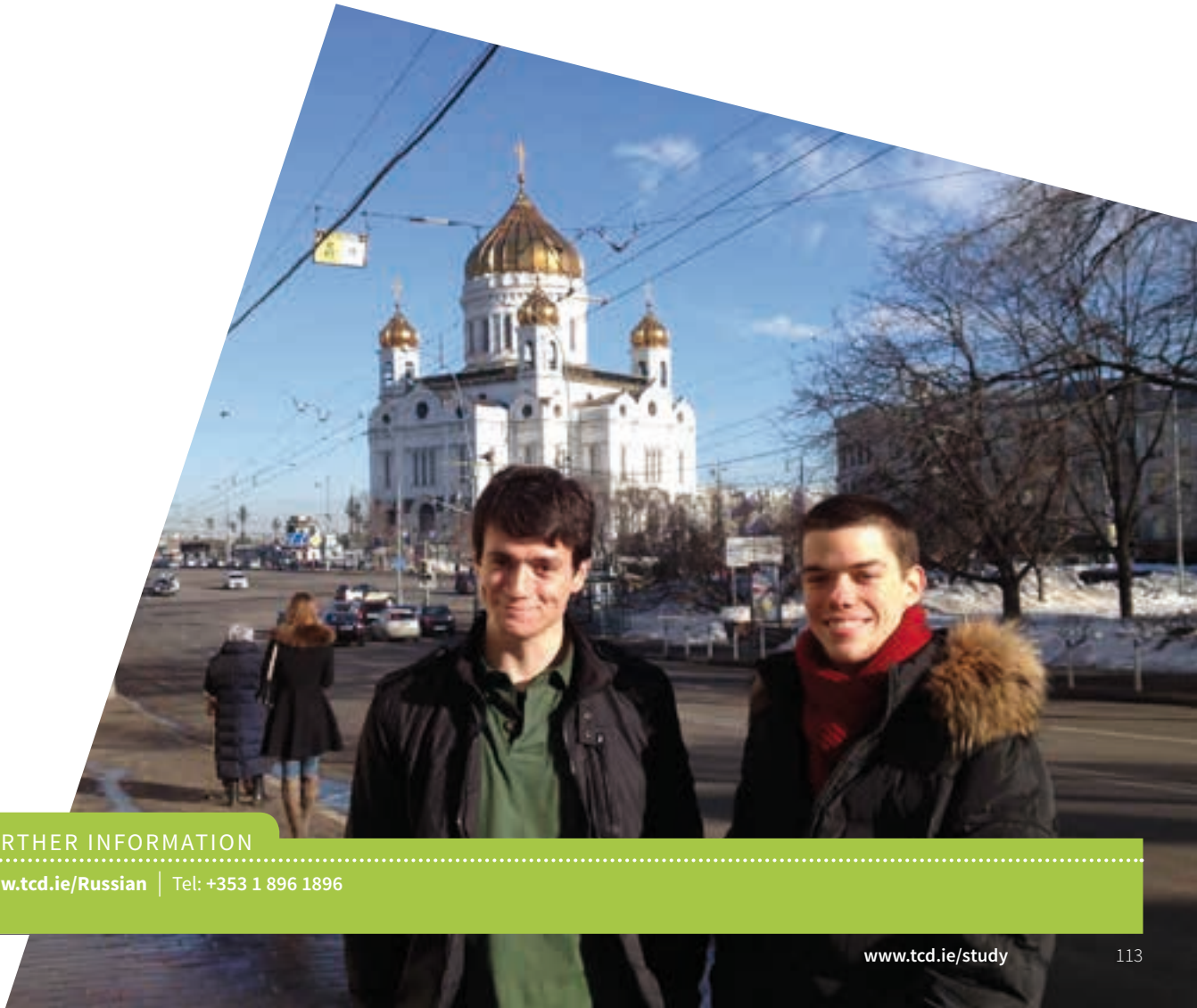
RELATED COURSES

TR024: European Studies, page 60
TR087: Business Studies and Russian, page 36
TR089: Business Studies and Polish, page 36

Careers

Career paths followed by recent graduates are often ones where Russian-language competence is directly relevant. These include: arts and media; education; business, finance and marketing; civil and public service; international organisations (UN, EU, NGOs) and diplomacy; journalism; and tourism. Alternatively, each year several graduates will opt to pursue further postgraduate study in Ireland or abroad.

Advanced knowledge of a less-studied language like Russian, as well as the transferable skills (analytical, critical thinking, written and oral presentation skills) you will acquire in your other areas of study, is generally a very attractive combination for prospective employers, even for career paths where Russian may not be directly involved in your day-to-day work.



FURTHER INFORMATION

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

Social Studies (Social Work)

COURSE CODES:	TR084
PLACES 2015:	45
POINTS 2014:	455*
DEGREE AWARDED:	B.S.S.(Hons)

What is Social Studies?

Social work is a profession concerned with supporting and helping people in a variety of situations and settings. People who use social work services include ethnic groups, young and adult offenders, children, families, travellers, older people, people with mental and physical illness and disability, homeless people, unemployed people and people with drug and alcohol problems. Social work spans a wide variety of roles including counselling, group work, lobbying, advocacy and political activism. Social workers network with other professions such as gardaí, doctors, public health nurses and schools as well as service-user and advocacy networks. Ultimately, social work aims to support people to live more successfully, within their communities, by helping them to find solutions to their problems.

Is this the right course for you?

Social Studies could be the right course for you if you wish to work in a caring and challenging profession. Most importantly, it is the right course for you if you have the ability to problem solve, a willingness to make challenging decisions alongside a strong desire to help others.

Why study Social Studies at Trinity?

This is one of only two undergraduate programmes in Ireland which qualifies students to a professional level in social work. A qualification in the area of social work has been taught in Trinity since 1934, making it Ireland's oldest and most internationally renowned social work programme. The small class size ensures that there is a friendly and energetic relationship between staff and students that is based on mutual respect. The degree programme combines teaching on a range of social science subjects alongside work placements which are offered in Ireland and abroad. The programme is accredited by CORU (the Health and Social Care Professionals Council). The Social Studies degree is an interesting and intensive programme which aims to help you become a reflective and proactive professional social worker who will make a significant contribution to society.

What will you study?

This course introduces you to a wide range of social science subjects in the first year, and then increases the number of social work subjects in the following three years. Teaching methods are varied, interactive and draw on your personal and practical experience. Assessment includes written examinations, essays, case studies, projects, and placement reports.

FIRST AND SECOND (FRESHMAN) YEARS

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 118). In first year, there are approximately 13-15 hours in lectures, 3-4 hours in tutorial classes and several hours in the library each week. If you have had no relevant practical 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 practical experience and help you to apply what you are learning to a real-world situation. First year students are also provided with the opportunity to undertake a six week placement related to the course (see below for further details).

In 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. Second year students can also avail of the opportunity to take a Broad Curriculum module in this year (see page 19). The social work modules involve field trips to relevant organisations and services. In addition, students undertake a ten week placement during this academic year.

THIRD AND FOURTH (SOPHISTER) YEARS

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

See precautions against infectious diseases, page 219

Students will be required to undergo Garda vetting, see page 219 for further details.

PLACEMENTS IN IRELAND AND ABROAD

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 practical experience and an opportunity to apply and develop the skills and knowledge that you have acquired at Trinity. Placements are arranged in settings such as child and family welfare teams, hospital social work departments, child and family centres, probation service and community development projects. They account for approximately 30% of your course time (220 days) over the four years and take place at the end of each of the first and second years and mostly in term time in the third and fourth years. Overseas placements are possible (but not obligatory) within the course structure for those who are interested in experience in another country (e.g. the UK, North America, Australia). 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.

Student Profile | **Jeanne Forde**

I cannot recommend the Bachelor in Social Studies highly enough. Many of the lecturers are qualified social work practitioners and gave real life practice examples, meaning that lectures were lively and engaging. The truly unique aspect of this course is the very interesting work placements available to each student, meaning that I was able to get a full picture of what to expect from the world of social work. This course provided me with an amazing foundation for my career, after which I went on to complete a postgraduate qualification in Oxford University.

Careers

As a Social Studies graduate of Trinity, 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 be recognised in many other countries. You also have a good social science degree that 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.

FURTHER INFORMATION

www.socialwork-socialpolicy.tcd.ie | **www.facebook.com/swsp.tcd** | **twitter.com/SWSP_TCD**

Email: social.studies@tcd.ie | Tel: **+353 1 896 2001**

Sociology

COURSE CODES:	TR001 (TSM)
PLACES 2015:	59
POINTS 2014:	440*-570* (see page 29)
DEGREE AWARDED:	B.A.

What is Sociology?

Sociology studies the interaction of people within social groups like families, schools and companies and how this shapes their behaviours and life chances. It explores questions such as: Why do migrants develop their cultural identities in different ways? How is privacy changing with the rise of digital technologies? How does a child's family of origin shape their chances in life? Do state rules and regulations represent and protect elite power?

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. You will also gain the ability to understand topical issues and to present and communicate information and thoughts coherently. In addition, you will learn invaluable analytical, communication, research and presentation skills – transferable skills which can be applied to a wide range of careers and postgraduate programmes.

Why study Sociology at Trinity?

There has been a rich tradition of sociological education at Trinity since the 1960s. The department is committed to advancing the understanding of society and to igniting the passion of our students through exceptional teaching and research. The department is ranked number 1 in Ireland and in the top 150 in the world (QS World University Rankings by Subject 2015).

The Department of Sociology is internationally known for its work on education and employment, migration, identities, social inequalities, conflict and digital lives. The department has won several teaching awards – both for postgraduates and staff – for outstanding contribution in the pursuit of teaching excellence.

As a recent graduate put it, Sociology explains how the great 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.

What will you study?

Our modules cover Ireland, the wider European society, the non-European world and the global arena. 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.

Sociology teaching in the first and second 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 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

Trinity Sociology staff and students participate in Interdependence Day

Sociology must be combined with one other TSM subject.
An honours degree is awarded in both subjects. For subjects that combine with Sociology see page 28.

RELATED COURSES

TR015: Philosophy, Political Science, Economics and Sociology (P.P.E.S.), page 98
TR081: Business, Economic and Social Studies (B.E.S.S.), page 32
TR083: Sociology and Social Policy, page 118

week in Sociology. In the second year, you study issues around gender, work and family; European societies; power, state and social movements, and are introduced to sociological research methods.

Specialisation in sociological topic areas, and more advanced analysis, research and presentation skills are provided in the third and fourth years. In your 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 fourth year offers modules in a variety of topic areas, including Digital Lives and Social Networks, 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.

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 our undergraduate students participate in Erasmus and non-EU international exchanges. You may participate in full-year or half-year exchanges with the following partner institutions: Sorbonne University (France), University Lille 1 (France), Charles University Prague (Czech Republic), Umea University (Sweden), University of Copenhagen (Denmark), University of Helsinki (Finland), University of Malta (Malta), Istanbul Bogazici University (Turkey), Utrecht University (Netherlands), Ludwig Maximilian University Munich (Germany) and St Xavier's College Kolkata (India). In addition, you can compete for a smaller number of places on University-wide non-European exchanges with partners in Australia, Singapore, China, Japan, Hong Kong, Brazil, Canada and the USA in your third year. Most of these universities offer their courses through English.

Careers

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 European Parliament, Citibank, RTÉ, Google, the Department of Foreign Affairs and Enterprise Ireland.

Graduate Profile | **Siobhan McDermott**

Sociology is a multifaceted area of study which allows students to develop a more nuanced understanding of society. The department offers a fantastic array of modules for anyone with an interest in different cultures and communities. I was able to choose from a selection of modules which encompassed not only Irish society but also society on a global scale. We were constantly encouraged to think critically in tutorials, juxtaposing previously held perceptions with new insights gained from lectures and readings. The final year dissertation acted as a fantastic opportunity to put into practice the various research skills I had developed throughout the programme.

FURTHER INFORMATION

www.tcd.ie/sociology | Email: sociology@tcd.ie | Tel: **+353 1 896 2701**
Facebook: **'Department of Sociology, Trinity College Dublin'**

Sociology and Social Policy

COURSE CODES:	TR083
PLACES 2015:	28
POINTS 2014:	460
DEGREE AWARDED:	B.A.

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?

Curious about social and economic policy issues around the world? Searching for a course that demands both academic and vocational qualities? Interested in understanding society, its social problems and have a desire to make a difference? Then Sociology and Social Policy may be the degree for you. It is a unique programme which combines the study of social theory, social policy and social research.

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, as well as to those with a general interest in society and social policy.

Why study Sociology and Social Policy at Trinity?

- Trinity's School of Social Sciences and Philosophy is at the forefront of research and teaching across the disciplines of Philosophy, Political Science, Economics and Sociology and is Ireland's top ranked university in all four subjects (QS World University Rankings by Subject 2015)
- Trinity's School of Social Work and Social Policy has a strong international orientation in its work with many School staff being members of international research networks in their fields of interest. It also contains research centres focussing on ageing, children and intellectual disability.

What will you study?

The fundamental aim of the degree programme is to give students a thorough training in the systematic study of society and its social issues. Sociology introduces students to the theories that explain social behaviour and relationships. Key themes will focus on the family, work, European societies and globalisation, conflict, migration and racism, social movements, social theories and social research. Social policy focuses on social issues and social problems and is concerned with building a better society. Key modules will enable students to answer some of the following very topical questions: What are social policies and why do we need them? Who makes social policy and who benefits from social policy? Who provides and who pays for social policies?

The two academic subjects are closely interrelated and have in common a questioning of everyday perspectives and explanations. They also share a range of particular research methods. An essential objective of the programme is to equip students with a range of research skills in order that they can both critically interpret existing research and conduct their own. Social research is the foundation for the scientific understanding of social phenomena. This programme introduces students to the theory and methods of social research. Students can expect to learn the entire process for conducting social research and evaluating the research conducted by others.

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 first and second years are more general and foundational in nature, while the 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. Assessment is by a combination of continuous assessment, class presentations and written examinations.

FIRST (JUNIOR FRESHMAN) YEAR

In first year you will take Introduction to Sociology, Politics and Irish Society, Social Policy Concepts and the Irish Welfare State, Introduction to Economics or Introduction to Economic Policy. Optional modules include Mathematics and Statistics, Introduction to Law, a choice of language (French, German, Russian, Polish), Introduction to Psychology, Introduction to Central, East European and Russian Area Studies.

SECOND (SENIOR FRESHMAN) YEAR

The second year places greater emphasis on social policy and sociology modules, as well as the Introduction to Social Research Methods. Irish Social Policy I and II are mandatory, with students choosing to take two modules from Introduction to Social Research, European Societies, Gender, Work and Family, Power, State and Social Movements, and a further two modules from Economy of Ireland, Economics of Public Policy, History of Political Thought, International Relations, Comparative Politics, Introduction to Irish Family Law, French, German, Russian, Polish language, and Broad Curriculum (see page 19) modules.

In first and second years students typically have two lectures and one tutorial per week for each module.

RELATED COURSE

TR001: Sociology, page 116

THIRD (JUNIOR SOPHISTER) YEAR

The choice of modules available in third year typically includes: Social Theory, Globalisation and Development, Researching Society, Race, Ethnicity and Identity, Social Inequality, Comparative Welfare States, Crime and Social Policy, Families, Youth and Society: Contemporary Issues, Economics of Less Developed Countries, Economics of Policy Issues, Irish Politics, Democracy and Development, European Union Politics, Representation and Public Opinion, Public Interest Law, and International Law.

FOURTH (SENIOR SOPHISTER) YEAR

The choice of modules available in fourth year typically includes: Economic Sociology of Europe, Conflict Studies, Migration, Digital Lives and Social Networks, Poverty, Inequality and Redistribution, Ageing Societies and a dissertation.

Many of the modules in third and fourth years 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.

Careers

The range of employment opportunities in the area of social and public policy continues to expand. This 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 having secured employment in companies such as Eurodesk (Brussels Link), Inner City Organisation Network, KBC Bank, Reiss and various education facilities, to name but a few.

The course also provides a solid foundation for specialist postgraduate courses in the areas of social research, social policy and social work.

Student Profile | **Aoife Ryan-Christensen**

I chose the degree in Sociology and 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 first two years, to a wider comparative perspective in the final two years. An important part of the degree is teaching students how to conduct research.

FURTHER INFORMATION

www.tcd.ie/ssp/socpol | Email: courseoffice@tcd.ie | Tel: **+353 1 896 1840**
www.socialwork-socialpolicy.tcd.ie and: **www.tcd.ie/Sociology** | Email: socpol@tcd.ie | Tel: **+353 1 896 2001**

Spanish

COURSE CODES:	TR001 (TSM)
PLACES 2015:	41
POINTS 2014:	450*-555*
DEGREE AWARDED:	B.A.

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 the native language of over five hundred million people. In those countries – more than twenty – in which it is officially spoken, it is second only to English. Spanish is an exciting and growing area of study, having become the second language in the United States, an official language in the European Union, the African Union, and the United Nations, and the second most important language on the internet.

Why study Spanish at Trinity?

Trinity is ranked 49th in the world for Modern Languages (QS World University Rankings by Subject 2015).

You will learn about the language and culture of Spain and Spanish America in a department with a very strong commitment to small-group teaching, within a friendly and supportive ethos and atmosphere.

What will you study?

Spanish at Trinity is taught by a variety of methods to equip you with a comprehensive range of skills in the accurate, fluent and sensitive understanding, reading, as well as use of the spoken and written language. If you are a beginner, the language teaching (five hours weekly) offers a realistic opportunity for you to reach the same standard within a year as those who have studied Spanish previously.

The department aims to develop the skill of textual analysis through close and careful reading, together with the organisation and expression of ideas in verbal and written form, and the deepening of analytical and critical skills.

Student Profile | **Isabel Cobb**

My experience has been challenging and extremely rewarding. The lectures have been interesting and varied – the passion and knowledge of each lecturer was very evident. My Erasmus year at Salamanca University was a demanding but truly enjoyable experience. In my final year the process of research and writing of the dissertation has been a major highlight.

FIRST AND SECOND (FRESHMAN) YEARS

The primary focus of the first and second years is to establish and consolidate your competence in understanding and using the Spanish language. In first year, ab initio students (at beginner level) attend five hours of language; non-beginners have four hours. Both attend one hour of literature and one hour on contemporary Spain. In second year all students attend three hours of language classes and four hours of literature per week.

In the first two years the course covers three main areas:

- Language: grammar and syntax, text analysis, translation, and practice in speaking and listening.
- Contemporary Spain: an introduction to history, socio-political issues and current affairs.
- Literature: close study of a varied range of modern Spanish and Spanish-American literary texts.

THIRD (JUNIOR SOPHISTER) YEAR

You will continue with language tuition, taking three one-hour classes each week:

- Writing, text analysis, translation and spoken Spanish;
- Grammar, syntax and vocabulary.

Following on from second year, in third year you will take one-semester courses in the literature of the Spanish Renaissance, and modern Spain and Spanish America, together with Spanish linguistics. The format is one lecture and one tutorial per week. Students are encouraged to give oral presentations on the texts followed.

FOURTH (SENIOR SOPHISTER) YEAR

If you elect to study Spanish in fourth year, you will work more independently and with significant freedom of choice. As well as studying Spanish language, the theory and practice of translation, and medieval Spanish literature, you will choose two other subjects from a range of special topics which include contemporary Spanish prose fiction, Spanish history and cultural politics, linguistics and Cervantes. You will also research and write a dissertation under the supervision of a member of the department on a topic that is of special interest to you.

ASSESSMENT

Essays throughout each year on your courses on literature and culture are combined with continuous assessment, and written and oral examinations.

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 must be combined with one other TSM subject. An honours degree is awarded in both subjects. For subjects that combine with Spanish see page 28.

RELATED COURSES

TR024: European Studies, page 60

TR090: Business Studies and Spanish, page 36

Study abroad

Students are encouraged to spend a year in Spain on an Erasmus exchange at one of the universities with which we have close associations, such as Granada, León, Salamanca, Sevilla, Oviedo, and Barcelona. At a minimum, you will be required to spend two months in a Spanish-speaking country prior to taking your final exams.

Careers

The main career opportunities are in education, journalism, the diplomatic service, business administration, banking, publishing, interpreting, translation, advertising, public relations, digital communication, and the visual media generally. Some recent graduates have gained EU placements in Brussels.

A substantial proportion of students engage in further study, particularly diploma and masters' courses. Ample opportunities exist in several universities, both in the U.K. and in Ireland, with Trinity's M.Phil. in Literary Translation and Comparative Literature proving popular. A number of undergraduates have also chosen to pursue M.Litt. and Ph.D. research degrees.

FURTHER INFORMATION

www.tcd.ie/Hispanic_Studies/pages/undergraduate.php | Tel: **+353 1 896 1257 / 3496**

COMPUTER SCIENCE, ENGINEERING, SCIENCE AND MATHEMATICS

Computer Science

124 Computer Science
126 Computer Science and Business
128 Computer Science and Language
130 Management Science and Information Systems Studies (M.S.I.S.S.)
132 Information Systems (non-CAO)

Engineering

134 Engineering (common entry), with specialisations in:
138 Biomedical Engineering
139 Civil, Structural and Environmental Engineering
140 Computer Engineering
141 Electronic Engineering
142 Electronic and Computer Engineering (joint programme)
143 Mechanical and Manufacturing Engineering
144 Engineering with Management

Science and Mathematics

146 Science (common entry), with specialisations in:
148 Biochemistry
149 Chemistry
150 Environmental Sciences
151 Functional Biology
152 Genetics
153 Geography
154 Geology
155 Immunology
156 Microbiology
157 Molecular Medicine
158 Neuroscience
160 Physics
160 Physics and Astrophysics
159 Physiology
162 Plant Sciences
163 Zoology
164 Chemistry with Molecular Modelling
166 Earth Sciences
168 Human Genetics
170 Mathematics
172 Medicinal Chemistry
174 Nanoscience, Physics and Chemistry of Advanced Materials
176 Theoretical Physics

Computer Science

COURSE CODES:	TR033
PLACES 2015:	100
POINTS 2014:	460*
DEGREE AWARDED:	B.A. (Moderatorship), Optional: Master in Computer Science (MCS)

What is Computer Science?

Computer Science is concerned with the study of everything to do with computers and our relationship with them. 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.

Is this the right course for you?

Computer Science at Trinity 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?

Trinity is the highest ranked Irish university in Computer Science and Information Systems, ranked in the world top 100 by the QS World University Rankings by Subject 2015.

Computer Science at Trinity is an integrated programme: students can study for an honours degree over four years, and also have the option to study for a fifth year leading to a Master in Computer Science (MCS) degree.

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, LinguaBox, Wifi Guard, CipherApps, Haunted Planet Studios, Haptica, GLANTA, Tolerant Networks, Cara Health, X Communications Ltd, EmpowerTheUser, Insight Statistical Consulting, Xcelerit, Wripl and Emizar.

This course is accredited by Engineers Ireland.

What will you study?

FIRST, SECOND AND THIRD YEAR

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 third year, you choose to study either for the honours degree (B.A. Moderatorship in Computer Science) or the Master in Computer Science (MCS).

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	HC3	Mathematics
Advanced GCE (A-Level)	Grade C	Mathematics

RELATED COURSES

TR032: Computer Engineering, page 140
TR032: Electronic and Computer Engineering, page 142
TR034: M.S.I.S.S., page 130
TR039: Computer Science and Language, page 128
TR082: Computer Science and Business, page 126

FINAL YEARS

If you decide to study for the honours degree in Computer Science 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 an internship, 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. Companies participating on our Internship programme include: Cisco, DemonWare, Microsoft, MasterCard, Murex, Susquehanna International Group (SIG), 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 are awarded.

Study abroad

You may apply to spend your third year studying at a university abroad as part of an exchange programme.

Careers

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. Graduates find employment in almost every 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.

Graduate Profile | **Katharine Burton**

What I really enjoyed about the course was the exposure to software, hardware and telecommunications which gives you the entire view of a system rather than the separate components. I found the lecturers to be knowledgeable and approachable. We were also required to take part in many group activities which developed our communication and team working skills and in turn prepared us well for the workplace environment. Being a male dominated science, I think we need more girls to think seriously about studying computer science at university.

During my summers at Trinity, I undertook a number of internships both in Ireland and abroad. One of these internships resulted in a full-time graduate job offer in London.

FURTHER INFORMATION

www.scss.tcd.ie/cs | Email: undergraduate@scss.tcd.ie | Tel: **+353 1 896 1765**

Computer Science and Business

COURSE CODES:	TR082
PLACES 2015:	30
POINTS 2014:	465*
DEGREE AWARDED:	B.A. Moderatorship in Computer Science and Business

What is Computer Science and Business?

Computer Science is the professional discipline concerned with the study of everything to do with computers and our relationship with them. 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. 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 on 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.

Is this the right course for you?

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 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.

Student Profile | **Aisling Cowzer**

The four years I spent studying Computer Science and Business provided me with a fantastic opportunity to gain those skills employers require in today's market.

The array of skills I have learned, has always impressed employers as they reflect the needs of modern businesses across multiple sectors and markets. My classmates are employed and self-employed across various markets and continents. I now work as a Technology Consultant, helping businesses incorporate digital technology into their organisations to improve processes and customer delivery – keeping my grasp across both computer science and business.

Why study Computer Science and Business at Trinity?

Trinity is the top ranked Irish university for Computer Science and Information Systems, and ranks in the top 100 in the world (QS World University Rankings by Subject 2015).

The Trinity Business School is ranked 1st in Ireland (Eduniversal Rankings, 2014) and 16th in Europe (Eduniversal Rankings, 2014).

What will you study?

FIRST (JUNIOR FRESHMAN) YEAR

In 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.

SECOND (SENIOR FRESHMAN) YEAR

In 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; Introduction to Marketing Principles; Introduction to Accounting; Introduction to Finance; Introduction to Operations Management; Creative Thinking, Innovation and Entrepreneurial Action.

Students take the following Computer Science subjects: Algorithms and Data Structures, Software Engineering Programming Project, Information Management, Systems Programming (e.g. development of C/C++ applications) and Systems Analysis and Design.

THIRD (JUNIOR SOPHISTER) YEAR

In 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:

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	HC3/OA2	Mathematics
Advanced GCE (A-Level)	Grade C	Mathematics
OR		
GCSE	Grade A	Mathematics

RELATED COURSES

TR033: Computer Science, page 124

TR034: M.S.I.S.S., page 130

TR080: Bachelor in Business Studies, page 30

TR039: Computer Science and Language, page 128

TR081: B.E.S.S., page 32

TR085, TR086, TR087, TR089, TR090: Business Studies and a Language, page 36

Business modules

Human Resource Management; Marketing Management; Financial Accounting; Management Accounting for Business Decisions; Human Resource Management; Business in Society; Innovation, Entrepreneurship and New Venture Development; Introduction to Fixed Income Securities and Alternative Investments; Surveying Finance; Services Management; Digital Technology in Operations; Organisation Theory and Organisational Analysis; Advanced Topics in Organisation Theory and Analysis.

Computer Science modules

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.

FOURTH (SENIOR SOPHISTER) YEAR

In the Senior Sophister 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 modules

International Business and the Global Economy; Exploring Organisational Experience; Financial Reporting and Analysis; Financial Markets and the Corporate Sector; Advances in Marketing Theory and Practice; Social Entrepreneurship and Social Innovation; Organisation and Management; Managing New Product Development; Economic Policy and Business History.

Computer Science modules

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.

Careers

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 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.

To date, graduates have secured employment in a variety of roles and areas which include: financial engineers, software developers, account managers, information technology risk assessment, analytics, technology consulting, marketing research, entrepreneurs. Organisations where graduates are employed include: First Derivatives, Ernst & Young, Accenture, LinkedIn, MRBI, PwC, and Google. Some students have also pursued Master's studies in both business and computer science disciplines.

FURTHER INFORMATION

www.scss.tcd.ie/undergraduate/computer-science-business | Email: **computerscience**-business@scss.tcd.ie

Computer Science and Language

COURSE CODES:	TR039
PLACES 2015:	20
POINTS 2014:	450
DEGREE AWARDED:	B.A. (Moderatorship)

What is Computer Science and Language?

The Computer Science and Language (CSL) degree combines computer science with the mastery of a particular language (French, German or Irish) and with the study of linguistics, which is the scientific study of language in general and the associated technologies concerning language. The chosen language (French, German or Irish) is studied to degree level, with emphasis on aural, oral and written fluency.

This course develops 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.

Is this the right course for you?

This course will appeal 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.

Why study CSL at Trinity?

This degree is one of the most interdisciplinary on offer, bridging both computer science and the arts. The skills acquired in the study of computing, together with the study of language and linguistics, open doors to world mobility and employability.

Trinity is listed in the top 100 universities in the world for Computer Science and Information Systems (QS World University Rankings by Subject 2015).

What will you study?

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 Trinity, 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.

FIRST AND SECOND (JUNIOR AND SENIOR FRESHMAN) YEARS

	Junior Freshman (1st year)	Senior Freshman (2nd year)
Computer Science	▸ Mathematics ▸ Introduction to Programming ▸ Representations and Computation	▸ Discrete and Continuous Mathematics ▸ Data Structures and Programming Techniques ▸ Natural Language Processing
Linguistics	▸ Introduction to the Study of Language (General Linguistics) ▸ Introduction to Phonetics and Phonology ▸ Introduction to Syntax	▸ Syntactic Theory ▸ Introduction to Speech Science ▸ Formal Semantics ▸ Instrumental Phonetics ▸ Computational Morphology ▸ Statistics for Linguistics
Language	▸ Written, oral and aural language fluency ▸ Area Studies	▸ Written, oral and aural language fluency

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.

RELATED COURSES

TR032: Computer Engineering, page 140;
Electronic and Computer Engineering, page 142
TR033: Computer Science, page 124
TR034: M.S.I.S.S., page 130
TR082: Computer Science and Business, page 126

THIRD AND FOURTH (SOPHISTER) YEARS

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 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.

Study abroad

Students who study French or German will spend a year studying at a university abroad and for students studying Irish it is a possibility.

Careers

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 and the Irish Diplomatic Corps.

Student Profile | **James Gibbons**

This course provides an exceptional range of skills that allow you to pursue a vast number of options after graduation. For me, it gave a fantastic background to pursue a career in software development. The distinctive combination of subjects encourages flexible thinking and an open-minded approach to problem solving that will prove invaluable to graduates.

FURTHER INFORMATION

www.scss.tcd.ie/csl | Tel: **+353 1 896 1765**

Management Science and Information Systems Studies (M.S.I.S.S.)

COURSE CODES:	TR034
PLACES 2015:	27
POINTS 2014:	515
DEGREE AWARDED:	B.A. (Moderatorship)

What is Management Science and Information Systems Studies (M.S.I.S.S.)?

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.

The primary objective of the M.S.I.S.S. 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 M.S.I.S.S. is on building up analytical skills, flexibility and creative thinking.

One of the remarkable features of M.S.I.S.S. is the range of careers that graduates take up. The M.S.I.S.S. programme provides students with a unique blend of skills and experience. It is this mix which makes M.S.I.S.S. unique amongst other third-level courses in Ireland and helps contribute significantly to the success M.S.I.S.S. graduates have in getting jobs.

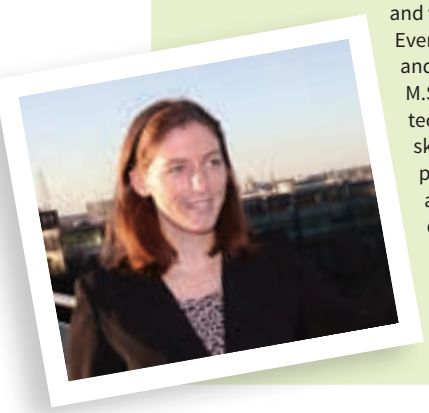
Is this the right course for you?

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.

Graduate Profile | **Laura Headon, Deloitte**

M.S.I.S.S. students complete real world type projects and learn practical skills which are valued by employers. The course has an excellent reputation, which leads to exciting and varied employment opportunities. Every day on the job I use skills honed and developed through my study of M.S.I.S.S., which include information technology skills together with other skills such as report writing and problem solving, key to building a successful career. M.S.I.S.S. is a dynamic course, which will appeal to students with an interest in modern business issues such as big data, data analytics and information technology.



Why study M.S.I.S.S. at Trinity?

The home of M.S.I.S.S. is in the School of Computer Science and Statistics. Trinity is listed in the top 100 universities in the world for Computer Science and Information Systems (QS World University Rankings by Subject 2015).

A key feature of fourth year is the project. **You will tackle a real-life, practical problem for a real world client.**

M.S.I.S.S. is highly regarded by employers and has one of the best graduate employment records of any undergraduate course in Ireland.

What will you study?

M.S.I.S.S. 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 M.S.I.S.S. 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.

MODULES

The modules covered by main subject areas are as follows:

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	HC3	Mathematics
Advanced GCE (A-Level)	Grade C	Mathematics

RELATED COURSES

TR033: Computer Science, page 124
TR082: Computer Science and Business, page 126

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

FIRST AND SECOND (FRESHMAN) YEARS

During the Junior and Senior Freshman 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

THIRD AND FOURTH (SOPHISTER) YEARS

The Junior and Senior Sophister 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, Irish Life, L&P Group, PwC, Deloitte, Electric Ireland, AIB, Bank of Ireland, McDonalds, Teagasc, HIQA, Betfair 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, technology entrepreneurship, mathematics, investment analysis, corporate financial reporting, statistical modelling and project 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.

Careers

M.S.I.S.S. has one of the best graduate employment records of any undergraduate course in Ireland. One feature of M.S.I.S.S. 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 M.S.I.S.S. 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.

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, FTI Consulting, Bank of America Merrill Lynch, CitiBank, CreditSuisse, Barclays, Deutsche Bank, JP Morgan, HSBC, RBS, Bank of Ireland, Ulster Bank, AIB, Irish Life, Aviva, Mercer, Paddy Power, First Derivatives, Boylesports, KerryGroup, Betfair, Google, ColgatePalmolive, Proctor and Gamble, United Drug.

FURTHER INFORMATION

www.scss.tcd.ie/courses/bamsiss | Email: undergraduate@scss.tcd.ie | Tel: **+353 1 896 1765**

Information Systems (Part-Time/Evening)

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 using the online application form. Completed applications must be submitted by 30 June 2016 for entry to the academic year 2016/17.

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.

Many of the students who undertake the Diploma in Information Systems are currently employed in the ICT function. The diploma is an opportunity to network with colleagues from all types of organisations, large and small, and from very diverse employment sectors.

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. Degree in Information Systems.

FURTHER INFORMATION

www.scss.tcd.ie/IS | Email: **is-**info@scss.tcd.ie | Tel: **+353 1 896 1765**

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)

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 honours 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 using the online application form. Completed applications must be submitted by 30 June 2016 for entry to the academic year 2016/17.

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 honours 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. Many of the students who undertake the B.Sc. (Hons) in Information Systems are currently employed in the ICT function. The degree is an opportunity to network with colleagues from all types of organisations, large and small, and from very diverse employment sectors.

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 | Email: **is-**info@scss.tcd.ie | Tel: **+353 1 896 1765**

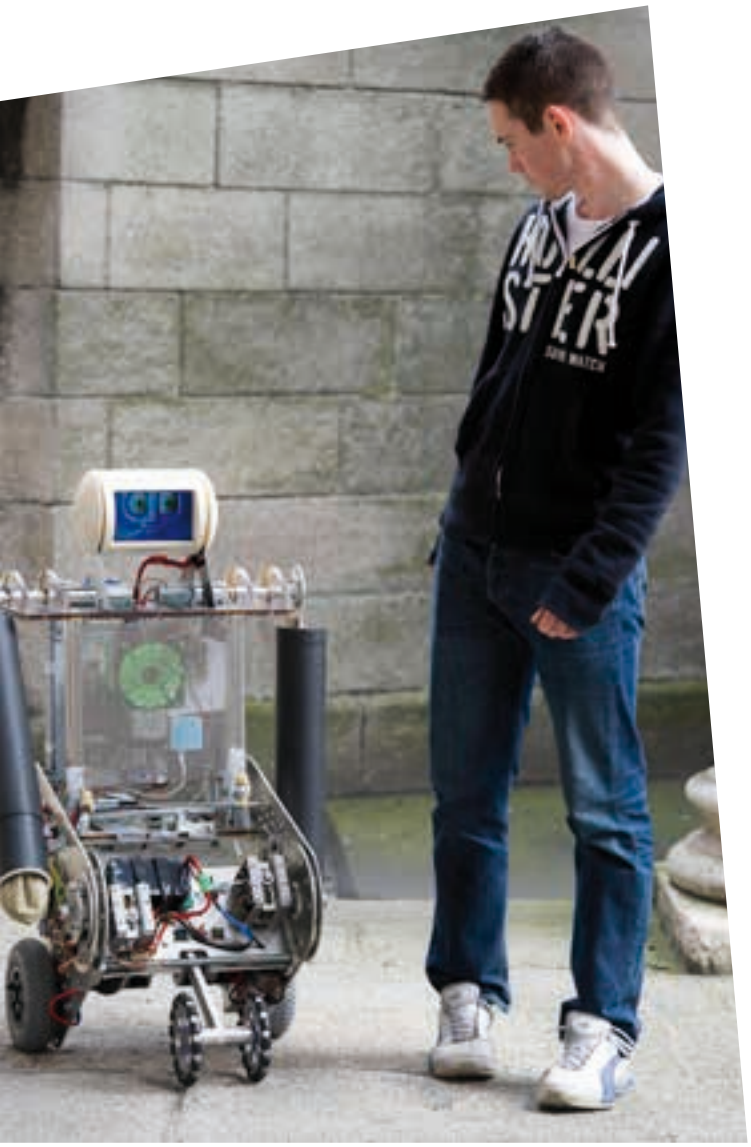
Engineering

(Common Entry Programme)

COURSE CODES:	TR032
PLACES 2015:	175
POINTS 2014:	470
DEGREE AWARDED:	B.A., M.A.I./Optional: B.A., B.A.I. only

What is Engineering?

Engineering is about being creative in technical problem solving. 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, biomedical devices 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. You will need to be a good communicator and 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.

Why study Engineering at Trinity?

The School of Engineering at Trinity is ranked in the top 200 Engineering Schools in the world and offers outstanding teaching by engineers who are at the forefront of their field worldwide. It has a strong philosophy of research-led teaching and continuously benchmarks itself against the top international engineering schools. The Engineering course offers the opportunity to carry out research as part of your course with the aim of producing graduates capable of participating at the highest national and international levels. There are opportunities for work placements In Ireland and abroad as well as study abroad opportunities as part of the degree programme. The Engineering programme is fully accredited by Engineers Ireland up to Masters level (M.A.I.) and offers excellent career prospects in Ireland and abroad.

What will you study?

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/three 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.

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	HC3	Mathematics
Advanced GCE (A-Level)	Grade C	Mathematics

RELATED COURSES

TR038: Engineering with Management, page 144

Engineering Course Structure

Year 1 and Year 2
Common to all Engineering streams

Year 3
Select one of:

- Civil, Structural and Environmental Engineering
- Mechanical and Manufacturing Engineering
- Electronic Engineering
- Electronic and Computer Engineering
- Computer Engineering
- Biomedical Engineering

Year 4 – B.A.I. Programme
Individual Research Project

Graduate with B.A., B.A.I. degrees

Year 4 – B.A.I. Programme
Year at Trinity
or
Semester 1 – Trinity
Semester 2 – Internship
or
International Exchange

Year 5 – M.A.I. Programme
Individual Research Project

Graduate with B.A., M.A.I. degrees

Engineering (Common Entry Programme)

FIRST AND SECOND (FRESHMAN) YEARS
All students follow a common programme for the first two years. The 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 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 which specialism to concentrate on.

While every effort is made to allow students to study the course they choose, in some departments the number of places for students of any one year may be limited (this has never been necessary so far).

WHAT HAPPENS NEXT?
At the end of 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

THIRD AND FOURTH (SOPHISTER) YEARS
Courses in the third and fourth (Sophister) years aim to broaden and deepen your knowledge and understanding of the specialism you have chosen.

Subjects are studied in much greater detail and students undertake real-life, practical projects. For example, 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.

Student Profile | **Conor Young**

I've had a really great experience studying engineering here at Trinity. My first two years gave me a flavour for the different paths in engineering I could go down. The different labs and projects throughout the years encourage you to learn, as well as the enthusiasm and dedication of the lecturers. As part of my degree I was given the opportunity to be involved in an internship where it was rewarding to able to apply the skills I have learned.

FIFTH YEAR OPTIONS WITH STUDY ABROAD AND INTERNSHIP OPPORTUNITIES
Engineering students require a Masters degree to be directly eligible for Chartered Engineer status with Engineers Ireland. Therefore the School offers several options for a fifth year leading to a Masters degree (M.A.I.).

- **M.A.I. (Domestic)**
  Students can spend the fourth and fifth year in Trinity, undertaking additional modules in their specialisation as well as a group project in fourth year and a significant individual project in fifth year.

  Students also have the option of spending the second semester of their fourth year undertaking a **supervised internship placement**. The remainder of their fourth year and the fifth year are spent in Trinity undertaking additional modules in the specialisation. Students complete a significant individual project in 5th year.

- **M.A.I. (International)**
  Students have the option to spend their fourth year abroad as part of the Erasmus/International exchange, CLUSTER or UNITECH programmes. As part of the Erasmus/International exchange or CLUSTER programmes, students spend their fourth year abroad at a partner university and return to complete their fifth year at Trinity. Some of our Erasmus/International exchange partner Universities include Institut National de Sciences Appliquées de Lyon – INSA, Universidad Politecnica de Madrid (UPM), Politecnico di Torino and University of Melbourne. The CLUSTER programme is a consortium of 12 universities including 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.

  The UNITECH programme is a collaboration of 8 partner Universities and 16 multinational corporate partners. Students will spend one semester of their 4th year in a partner university followed by **a six month internship with one of the corporate partners** and return to complete their 5th year at Trinity. The partner universities are Chalmers University of Technology, Gothenburg; ETH Zurich; Institut National de Sciences Appliquées de Lyon – INSA; Loughborough University; Politecnico di Milano; RWTH Aachen University; TU Delft, The Netherlands.

Engineering at a glance

All students follow common first and second years. At the end of the second year you will select one of six specialist streams as outlined below.

First (Junior Freshman) year	Second (Senior Freshman) year	Third and fourth (Sophister) 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 see the individual stream pages (see below).
Junior Freshman modules ▸ 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** ▸ Engineering Mathematics III and IV ▸ Numerical Methods ▸ Computer Engineering II ▸ Solids and Structures ▸ Thermo-Fluids ▸ Electronics ▸ Engineering and the Environment ▸ Materials ▸ Engineering Design III: Project ▸ Engineering Design IV: Project	**Sophister modules** ▸ Engineering Mathematics V ▸ Management for Engineers ▸ Probability Statistics Select one of the six specialisations below: **Biomedical Engineering**, page 138 **Civil, Structural and Environmental Engineering**, page 139 **Computer Engineering**, page 140 **Electronic Engineering**, page 141 **Electronic and Computer Engineering (joint programme)**, page 142 **Mechanical and Manufacturing Engineering**, page 143

ASSESSMENT

Assessment in each of the first two years is mostly 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.

Careers

The B.A.I. and M.A.I. degrees are recognised by Engineers Ireland and by a large number of engineering institutions outside Ireland. These degrees will be your gateway to a wide and varying career path. Graduates pursue a wide variety of careers, for example: medical device and pharmaceuticals industry; construction; design and transport; management; banking; law; financial services; management consultancy; energy, water, environmental sector; teaching; software and systems design; computer, electronics and telecommunications industry; specialist research and development; local authorities; mechanical, manufacturing and aerospace sector.

FURTHER INFORMATION

www.tcd.ie/engineering | Tel: **+353 1 896 1142** | Email: engineering@tcd.ie
www.facebook.com/TrinityEngineering | Twitter: @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 136 for details of the Freshman (first two) years.

What is Biomedical Engineering?

Biomedical engineering advances knowledge in engineering, biology and medicine, and improves human health through cross-disciplinary activities that integrate the engineering sciences with the biomedical sciences and clinical practice. Biomedical engineers develop new medical devices, algorithms, processes and systems that advance biology and medicine and improve medical practice and health care delivery. Biomedical engineers are found in leading companies developing medical devices such as cardiac pacemakers, stents, imaging systems such as MRI scanners and aids for people with disabilities. It is a challenging professional discipline, requiring knowledge of biology and medicine, as well as understanding of a range of engineering subjects spanning electronics, computers, mechanics and manufacturing. It is also a very exciting field in which new products are constantly being developed, using the latest technology in materials, electronics, 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. Example biomedical courses include:

Biomechanics, Biomaterials, Anatomy and Physiology, Cell and Molecular Biology, Medical Device Design, Tissue Engineering, Neural Engineering

In the Junior Sophister (third) year you will study technical courses in both mechanical/manufacturing engineering and electronic engineering, along with courses in anatomy and physiology. In the Senior Sophister (fourth) year and (optional) Masters (fifth) year you will study a range of technical subjects, including the specialised subject of biomedical engineering (see above).

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. Examples of final-year projects include:

- Nanocomposites for cardiovascular implants
- The biomechanics of rowing
- Development of a brain computer interface by an EEG signal analysis
- Remote wireless 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.

Careers

Ireland's medical technology sector has evolved into a global leader for medical device and diagnostic products, with exports annually exceeding €8bn. Ireland has 320 companies involved in developing, manufacturing and marketing pacemakers to micro-electronic devices, orthopaedic implants, diagnostics, contact lenses and stents. These companies have a strong demand 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 clinics and hospitals where they work as clinical engineers, responsible for complex, expensive diagnostic equipment and laboratories.

FURTHER INFORMATION

www.tcd.ie/bioengineering | Email: bioeng@tcd.ie | Tel: **+353 1 896 4214**

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 136 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, manage our waste and deal with pollution in air, land or water. 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 tower, a building, a bridge, a stadium or a mooring system for an offshore structure. 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?

In the Junior Sophister (third) year, Senior Sophister (fourth) year and M.A.I. (fifth) year, students are offered modules in Structural and Geotechnical Engineering, Environmental Engineering and Transportation. More information can be found at: **www.tcd.ie/engineering/current-students**

A significant amount of teaching takes place in the laboratory, and the course involves a lot of project work. In the Junior Sophister (third) year, students undertake site visits to civil engineering works and areas of geological interest nationally. There is also a **one-week technical visit to an international location**. Recent trips have included visits to Paris and Barcelona.

The Senior Sophister (fourth) year project is a small group project working on a major infrastructure design with some individual design element to it. There is also the opportunity to undertake a **placement in industry or with a research group** or to participate in the Unitech or Cluster programmes.

The optional fifth year allows students to study toward the Master's degree qualification with a more advanced level of treatment of topics.

Study abroad

In their fourth year, students get the chance to study in Europe as part of the Erasmus, Cluster or Unitech programmes.

Careers

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

www.tcd.ie/civileng | Email: civeng@tcd.ie | Tel: **+353 1 896 1457**

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 136 for details of the Freshman (first two) years.

What is Computer Engineering?

A computer engineer has mastered the necessary knowledge of mathematics and systems to tackle a whole range of real-world problems. Layered on top of these fundamentals is a set of specialist skills in computing that range from how a computer is designed and constructed to the application of computing power to solve a range of problems from social media to navigation, from medicine to space travel, and many more besides.

The impact of computer engineering has been more significant and more pervasive than that of many other disciplines. The smart phone, tablet computers, 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. They need good people skills as they often get quickly promoted to management positions

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 with more than 60 academics and over 300 postgraduate students. The School is highly respected internationally for the quality of its research and many of the staff who will teach you are among the world's leading experts in their fields. Some famous start-up companies associated with the School are Iona Technologies, Havok, Demonware and DAFT.

What will you study?

Third year courses cover:

- Microprocessor Systems
- Computer Networks
- Operating Systems and Concurrent Systems

In the fourth year, in addition to a course in engineering management and an major project, you will study:

- Computer Graphics
- Computer Vision
- Computer Architecture
- Data and Knowledge Engineering
- Sustainable Computing
- Augmented Reality
- Security of Networks and Distributed Systems

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 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:

Forecasting trending topics in social media; Guiding immersion in Immersive 3D virtual reality; Using Bluetooth beacons to find things; Tracking individuals across multiple camera feeds; Monadic second order logic for natural language temporality.

For more detail on what is covered in each module, please visit: **www.tcd.ie/engineering/current-students**

Study abroad

You may choose to spend all of the penultimate year abroad as part of the Erasmus, Cluster or Unitech programmes.

Internships

Students intending to study for 5 years to an MAI degree may have the opportunity to apply for internships in industry or in a research laboratory.

Careers

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 Asia.

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 136 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.

What will you study?

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.

Junior Sophister (third year) courses cover:

- Core elements of analogue and digital electronics
- Microprocessor systems
- Signals and systems
- Electromagnetism

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.

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.

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

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. 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.

Study abroad

You may choose to spend the penultimate year at a European university as part of the Erasmus, Cluster or Unitech exchange programmes.

Careers

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
www.tcd.ie/eleceng | Email: secretary@mee.tcd.ie | Tel: **+353 1 896 1580**

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 136 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 achieve the best results.

What will you study?

This degree option blends aspects of both the Electronic Engineering (see page 141) and Computer Engineering (see page 140) options into one course.

In the third year you will study four core engineering subjects and seven electronic and computer engineering subjects.

Third year courses cover:

- Core elements of analogue and digital electronics
- Microprocessor systems
- Signals and systems
- Computer networks
- Telecommunications

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.

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
- Digital signal processing and digital media processing
- Telecommunications & digital communications
- Microelectronic circuits
- Computer architecture
- Data engineering
- Computer graphics
- Computer vision
- Knowledge engineering
- Sustainable computing
- Augmented reality
- Security of networks and distributed systems

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. 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.

Study abroad

You may choose to spend the penultimate year abroad as part of the Erasmus, Cluster or Unitech exchange programmes.

Internships

In the second half of the fourth year, M.A.I. students may have the opportunity to apply for **internships in industry or in a research laboratory**. Internships are subject to availability, and students generally compete for them.

Careers

The variety of careers open to graduates of Electronic and Computer Engineering range from designing embedded processors for a wide range of applications, through network design and management in telecommunications companies, to opportunities in business and financial management where the analytic and problem-solving skills of electronic and computer engineers have long been appreciated.

FURTHER INFORMATION

Department of Computer Science **www.scss.tcd.ie/undergraduate/ug-course-list.php** | Tel: **+353 1 896 1765**
Department of Electronic and Electrical Engineering **www.tcd.ie/eleceng/undergraduate** | Tel: **+353 1 896 1580**

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 136 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 conversion 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 behaviour of gases and liquids, for example the flow of air over the wings of an aircraft.
- **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 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 modules. 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: acoustics, 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
- Bamboo: study of structure and mechanical properties

Study abroad and work experience

You can spend your fourth year studying abroad or a semester 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.

Careers

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, financial services 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 engineering consultancies, public utilities (transport, power generation) and manufacturing industries in the mechanical, electronic and biomedical sectors.

FURTHER INFORMATION

www.tcd.ie/mecheng | Email: julee@tcd.ie | Tel: **+353 1 896 1383**

Engineering with Management

COURSE CODES:	TR038
PLACES 2015:	22
POINTS 2014:	460
DEGREE AWARDED:	B.Sc.(Ing) Optional: M.A.I.

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

Engineering with Management is concerned with the analysis, design, improvement, installation and management of integrated systems of people, finance, 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, production, project management and communications. Our graduates have the technical skills common to all excellent engineers, with this knowledge augmented by an understanding of the commercial and industrial environment and the ability to generate innovative solutions to the problems of the world.

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 the course equips graduates to compete favourably with general graduates for careers in the business and financial sectors.

Why study Engineering with Management at Trinity?

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, which is delivered through active learning strategies implemented by our world-class staff.

The course is a professional engineering degree, fully accredited by Engineers Ireland, 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 – ranked in the top 200 schools in the world for Mechanical and Manufacturing Engineering in the 2015 QS subject rankings.

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 have the opportunity of studying abroad and have the chance to be chosen for a team which travels to Stanford University and the Silicon Valley area** to showcase their product design projects (details below).

What will you study?

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

- Engineering Fundamentals
- Business and Management
- Design
- Manufacturing Engineering

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, supply chain management, and human resources management.

Throughout the course, a strong emphasis is placed on group projects, case studies and teamwork. **Many of our 4th years are undertaking the 4E5 (Innovation in Product Development) module. This pairs us in teams with students from the world's leading universities (e.g. Stanford in the US); each team consisting of 4 students from each university. The course also involves trips to Stanford and the Silicon Valley area. The teams are working with industrial sponsors, recent examples being SAP and Panasonic, with a mission to create innovative solutions to real customer needs.**

www.tcd.ie/mecheng/engman/assets/News%20stories/4E5_sem1_2014.php

Students in their first year study the foundational sciences required for engineering (mathematics, computer programming, physics, and chemistry). They are also introduced to management science and manufacturing engineering and design, and to the practice of engineering through our laboratory programme and a group design project.

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	HC3	Mathematics
Advanced GCE (A-Level)	Grade C	Mathematics

RELATED COURSES

TR032: Engineering, page 134
TR034: M.S.I.S.S., page 130

Students in their second year build on the foundation sciences learned in first year and are introduced to more applied sciences in terms of how materials and structures behave. A major feature of the second year is the emphasis on small group teaching and project work which integrates design, engineering science and business. All students undertake a major group project – designing and building a metal bodied guitar, which includes not just the technical, but also a business and marketing plan for their product.

In third year students develop further their knowledge in the behaviour of materials and the solution of engineering problems, as well as the systems level information systems required in large modern businesses. Students may choose electives in either biomedical or mechanical engineering and specialist options in energy, communications, machine design or broad curriculum. At the end of year three you make a decision to pursue a Bachelor degree (B. Sc.(Ing) or a Masters degree (M.A.I.) depending on achieving the necessary academic standards.

Most of our 4th year students are in the first year of a two year masters-cycle leading to the award of an M.A.I. degree (see below). Students can elect to choose from a very broad range of technical and business modules to best suit their own aptitudes and career preferences. Students electing to conclude their studies with a bachelor's degree (B.Sc.(Ing)) undertake a project. Those continuing to a 5th year have a number of other options such as the innovation projects (see above), industry-based internships, or study-abroad programmes (see below).

Students in 5th year (studying for an M.A.I. qualification) undertake a major individual research project and range of advanced specialist technical modules.

FIVE YEAR MASTERS IN ENGINEERING

Students who achieve a satisfactory academic standard in their 3rd year may proceed to a 2-year Master's 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.(Ing) 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 Trinity 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 Trinity 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 Trinity, comprising an approved combination of project work and lectures.

Careers

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, and many have gone on to create start-up businesses.

FURTHER INFORMATION

www.tcd.ie/mecheng/engman | Email: kevin.kelly@tcd.ie | Tel: **+353 1 896 1383**

Science (Common Entry Programme)

COURSE CODES:	TR071
PLACES 2015:	320
POINTS 2014:	515*
DEGREE AWARDED:	B.A.

What is Science?

Science is making critical contributions to conservation and the new world economy, and to our health and welfare. Scientific knowledge had been used to develop modern medicine, the mobile phone, the worldwide web, and new ways to save and generate energy. There is much to learn and much more to be discovered. Discoveries made by scientists have changed our world. We have a deep understanding of how the natural world works. We know much about how the physical world evolved from the Big Bang 13 billion years ago, how our planet evolved from stellar debris and how modern man diverged from other hominids in the last 150,000 years. We know the structure of DNA and the genetic code of a human being, the TB bacterium, of rice and many other organisms.

Why study Science at Trinity?

Science is diverse, progressive and exciting. It provides students with a broad foundation in Science (student choose 3-4 subjects for their first two years), followed by the opportunity to specialise in one of 16 areas for their final two years. Graduates of this course have excellent career prospects across the whole spectrum of the sciences. The Science course in Trinity offers:

- Outstanding teaching by scientists and mathematicians who are at the forefront of their field worldwide.
- Research-led teaching by world leaders in their fields.
- Excellent laboratory facilities.
- Field and laboratory work supported by many subjects.
- Continuously updating and revising course structures ensuring excellent qualifications.
- Opportunities for study abroad before and after graduation.
- Opportunities to carry out research as part of your course.
- Excellent career prospects in Ireland and abroad.

What will I study?

A key feature of the first year in Science at Trinity is that you don't have to choose your modules before you start. On your first day you will meet with scientists who will advise you on your options. Courses in the first two years are designed to introduce you to and train you in the fundamental sciences. By the end of the 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.

FIRST YEAR

Choose modules to the value of 60 credits for the year (30 per semester) from the following subjects:

Biology (20), Chemistry (20), Geography (20), Geology (10), Mathematics (20), Physics (20), Foundation Physics (10).

SECOND YEAR

Choose modules to the value of 60 credits for the year (30 per semester) from modules within the following subjects:

Biology (50), Chemistry (20), Geography (20), Geology (20), Mathematics (20) and Physics (20).

THIRD AND FOURTH YEARS

Choose one of the following 16 specialisations:

Biochemistry, Chemistry, Environmental Science, Functional Biology, Genetics, Geography, Geology, Immunology, Microbiology, Molecular Medicine, Neuroscience, Physics, Physics and Astrophysics, Physiology, Plant Sciences, Zoology.

Careers

Our graduates pursue a wide variety of careers in, for example:

- Hospitals and commercial laboratories
- Biotechnology and food science industries
- Electronics and telecommunications
- Biophysics
- Automation and computing
- Chemical and pharmaceutical industry
- Electronics, computer and IT industries
- Engineering
- Energy and mining industry
- Water industry
- Agriculture and food industries
- Biological or psychological research
- Hospital and medical services
- School teaching
- Media (e.g. Liz Bonnin – biochemist, Ella McSweeney – zoologist)
- Accountancy and financial services, stockbroking, insurance and banking
- Environmental management
- Universities and research institutes

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

SPECIAL ENTRY REQUIREMENTS

Combinations of subjects not permitted:

Physics/Chemistry with Physics or Chemistry

Agricultural Science with Biology

Applied Mathematics with Mathematics

Note: There may be additional costs for students on some courses in the 3rd and 4th years related to field trips.

Science Course Structure

Year 1

Choose subjects to a total of 60 credits:
(credits are listed in brackets below)

Mathematics (20)	**Biology 1101** (10) **Biology 1102** (10)	**Chemistry 1101** (10) **Chemistry 1102** (10)	**Geography 1021** (10) **Geography 1022** (10)	**Physics** (20)
Mathematical methods (10)			**Geology 1101** (10)	**Physics – Foundation Physics for the Life and Earth Sciences** (10)

Year 2

Choose 3 subjects to a total of 60 credits:
(credits are listed in brackets below)

Mathematics (20)	**Biology** (20)	**Chemistry** (20)
Geography (20)	**Geology** (20)	**Physics** (20)

Years 3 & 4

Select one of:

Biochemistry, page 148 Chemistry, page 149 Environmental Sciences, page 150 Functional Biology, page 151 Genetics, page 152 Geography, page 153	Geology, page 154 Immunology, page 155 Microbiology, page 156 Molecular Medicine, page 157 Neuroscience, page 158 Physics, page 160	Physics and Astrophysics, page 160 Physiology, page 159 Plant Sciences, page 162 Zoology, page 163

See: **www.tcd.ie/Science/prospective** for further details.

FURTHER INFORMATION

Visit us: If you are considering studying Science at Trinity please contact us by email to arrange a visit.
Email: science@tcd.ie | Tel: **+353 1 896 2829 / 2022**
See our introduction to Science presentation and student profiles: **www.tcd.ie/science/prospective**
Visit our frequently asked questions page: **www.tcd.ie/science/prospective/faqaboutscience.php**

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 146.

What is Biochemistry?

Biochemistry deals with the structure and function of the building blocks of life, such as proteins, lipids and nucleic acids, and how these various components work together in living organisms. Biochemists have developed key technologies and instruments that are used widely in the life and medical sciences. Biochemistry helps us understand the molecular basis of disease and disorders, it is concerned with the development of new therapeutics, and all major pharmaceutical companies use it to help aid their development of new drugs for cancer, infectious diseases and other pathological conditions. Biochemistry is also an essential component of biotechnology, where processes for the production of foods and fuels, and enzymes and other proteins are developed.

Is this the right course for you?

If you are interested in chemistry or biology then biochemistry is a good choice for you. Biochemistry has a strong medical slant at Trinity and is an ideal choice if you are interested in biomedical sciences.

Why study Biochemistry at Trinity?

Biochemistry is an internationally recognised discipline at Trinity. There are currently fifteen principal investigators in the discipline of Biochemistry within the school of biochemistry working on topics such as cancer biology, obesity, diabetes, neurobiology, neurodegeneration, autoimmunity, parasitology, immune-metabolism, protein structure and drug development. The School is located in a 'state of the art' research and teaching facility, the Trinity Biomedical Sciences Institute, which has enhanced many activities in the school and allowed direct interaction with colleagues in immunology, medicine, pharmacy, chemistry and neuroscience.

What will you study?

THIRD (JUNIOR SOPHISTER) YEAR

Protein Structure and Function, Membrane and Cell Biology, Nucleic Acids and Gene Expression, Biochemistry in Health and Disease, Research Skills and Biochemical Analysis.

FOURTH (SENIOR SOPHISTER) YEAR

Neurobiology, Developmental Biology, Microbial Diseases, Stem Cell Biology, Cancer Biology, Metabolic Diseases, Structural Biochemistry and Cellular Imaging, Immunology, Research Project in Biochemistry.

If you would like to find out more detailed information on all the modules offered, see: **www.tcd.ie/biochemistry**

Study abroad

The school participates in the Erasmus scheme which offers the opportunity for students to spend their third year studying in a university in the UK (University of Glasgow), France (Université Joseph Fourier, Grenoble) or Germany (University of Mainz). Further information on the year abroad programme, and a list of partner universities, can be found at: **www.tcd.ie/biochemistry/undergraduate/socrates.php**

Careers

This degree will equip you to work in all major aspects of biochemistry, cell and molecular biology. Currently biochemistry graduates work in hospitals, commercial laboratories dealing with analysis, biotechnology, food science, pharmaceuticals or diagnostics. Biochemistry graduates also benefit from their training in critical thinking, analytical reasoning and presentation and communication skills. Consequently, our recent graduates are in high demand in careers not related directly to biochemistry such as communication, information systems, teaching, management, patent law and journalism. Examples of companies where biochemistry graduates from Trinity are employed include Abbot, Andor Technology, Kerry Group, MSD, Novartis, and Pfizer. In addition, recent graduates also work in organisations such as the HSE, Forensic Science Ireland, Teagasc and also in science journalism in RTE, BBC, Nature group. Biochemistry graduates are also employed in scientific administration in organizations such as the HRB, the Wellcome Trust and the European Commission. Many graduates are also employed in teaching at second and third level.

FURTHER INFORMATION

www.tcd.ie/biochemistry | Twitter: **https://twitter.com/tcdbi** | Email: denolan@tcd.ie | Tel: **+353 1 896 1608**

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 146.

Chemistry is also an integral part of the following courses:

TR074: Chemistry with Molecular Modelling, see page 164.

TR075: Medicinal Chemistry, see page 172.

TR076: Nanoscience, Physics and Chemistry of Advanced Materials, see page 174.

What is Chemistry?

Chemistry is a creative science that is used to develop everything from new materials for superconductors and new batteries, to new drug molecules for the pharmaceutical industry. Without it, many modern science disciplines, such as materials science, molecular biology and environmental science, would not be possible.

Is this the right course for you?

If you are strong in Science, if you enjoy laboratory experiments and want to work in industry or research after university, and if you are innovative, creative and logical then you will be well suited to this course.

Why study Chemistry at Trinity?

The School of Chemistry at Trinity is ranked number 1 in Ireland and in the top 100 worldwide (QS World University Rankings by Subject 2015). Our Chemistry degree is designed to provide you with the practical and analytical skills needed for a career in research and industry. Many of the School's academic staff carry out research at the cutting edge of their fields in areas as diverse as nanoscience, energy and drug design. In 4th year, you will have the opportunity to undertake a significant research project either in the School or abroad at one of the many third-level/research institutes with which the School has agreements.

What will you study?

Following foundation- and core-level modules in 1st and 2nd year in a number of science subjects (physics or biology) along with chemistry and mathematics, you will expand your knowledge of chemistry in 3rd and 4th year, taking more advanced modules in organic, inorganic and physical chemistry. In 4th year, you will carry out an extensive research project in the first semester, either in one of the research labs in Trinity or abroad. Graduates often cite this as the most memorable and rewarding part of their undergraduate degree. You will have the opportunity to study the fundamentals of modern chemistry, whilst developing your interests in specific topics such as bio-inorganic/organic chemistry, solid-state materials, interfacial and environmental chemistry.

For more details on the modules offered by the School, please visit:
http://chemistry.tcd.ie/undergraduate

Study abroad

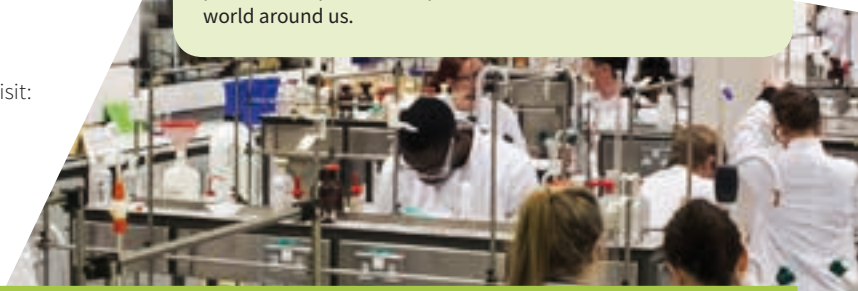
The School of Chemistry has exchange agreements with a large number of universities and research institutes where students may carry out their final-year research projects, in places such as Vienna, Berlin, Bologna, Toulouse, and Utrecht, North America and Australia. A limited number of places are available in China. The areas of research are wide-ranging, including cancer chemotherapy and DNA chemistry, device fabrication and materials processing, homogeneous catalysis, supramolecular chemistry and computational chemistry. Between 3rd and 4th year, some students also take a year-long internship in a pharmaceutical company to enhance their knowledge of chemistry and their practical skills.

Careers

A chemistry degree combines specialist practical training with analytical, problem-solving and presentation skills and is excellent preparation for graduates considering a diverse range of career paths. Trinity's chemistry graduates are highly sought after by the chemical and pharmaceutical industries and graduates have worked in companies such as Henkel, Pfizer, Glaxo-Smith-Kline and Bristol Meyers Squib. Patent offices, government advisory and information services, libraries, public analytical laboratories, schools and third-level institutes also employ our chemists. Our graduates can also pursue postgraduate degrees either in the School of Chemistry or in other world-class research institutes.

Student Profile | **Shelley Stafford**

When applying for university, Trinity was an easy choice for me, with an international reputation for excellence, and researchers at the cutting edge of their fields – there was just no competition! Trinity's Science course provides the opportunity to study a number of subjects without fully committing to one from the start. If it weren't for the generality of the Science degree, I would have ended up with a course that just wasn't right for me. Specialising in Chemistry has shown me how diverse and creative science really is. Chemistry provides the perfect viewpoint from which to understand the world around us.



FURTHER INFORMATION

www.tcd.ie/chemistry | Twitter: **@TCD_Chemistry** | Tel: **+353 1 896 1726 / 2040** | Email: chemistry.department@tcd.ie

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 and 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 146.

What is Environmental Science?

Environmental Science is the study of the various interactions between the biological, chemical and physical components of our environment with special emphasis on the human influences on these components. Environmental scientists have training that is similar to other physical or life scientists, but is specifically applied to the environment.

Why study Environmental Science at Trinity?

This course has been designed to provide for the needs of students with an interest in this rapidly developing academic and professional field. It 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 may attend three field excursions in their third year; an introductory field trip in the first week, and in addition, students have the option to take field trips from other disciplines in the School; Zoology offers a field trip in Terrestrial ecology, and Botany offers a field trip which will be based in the Canary Islands.

What will you study?

THIRD (JUNIOR SOPHISTER) YEAR

- Introduction to Environmental Sciences
- Fundamentals of Ecology
- Environmental and Analytical Chemistry
- Hydrology and Water Quality
- Freshwater Hydrobiology
- Experimental Design and Analysis
- Electives in Zoology
- Field skills in Plant and Environmental Science
- Environmental Dynamics
- Entomology
- Behavioural Ecology
- Environmental Governance

FOURTH (SENIOR SOPHISTER) YEAR

- Research Project
- Environmental Literature
- Data Analysis
- Water Technology
- Global Environmental Change
- Estuarine Ecology
- Plant Community Ecology
- Plant Conservation and Biodiversity
- Conservation and Wildlife Management
- Tropical Ecology
- Plant-Animal Interactions
- Environmental Governance 2
- Analysis in Geological, Earth and Environmental Research

If you would like more detailed information on all the modules offered, see: **http://naturalscience.tcd.ie/undergraduate/environmental-sciences.php**

Careers

As a graduate in this area you will be able to take advantage of the worldwide demand generated by increasing environmental awareness. Our graduates pursue careers in conservation, resource management, waste management, environmental research, environmental protection and environmental education.

Many graduates move straight into environmental consultancy, while others find employment in NGO's, national and local government departments, monitoring agencies, conservation bodies and analytical laboratories. It is also common for a number of our graduates to choose to further their education by pursuing postgraduate degrees in Environmental Science.

Student Profile | Maeve Ryan

I decided to study Environmental Sciences as I had an interest in global environmental change and environmental governance. I graduated in 2013, and I am currently studying for an MSc in Environment and Development at King's College London.

The degree has a wide variety of optional modules to choose from, and this flexibility enabled me to focus on areas related to my career aspirations. The programme also provided me with exciting opportunities. I carried out six weeks of data collection for my dissertation in the Wakatobi Marine National Park (Indonesia) researching how coral structure and function differed in a no-fishing zone compared to a reef located near a village. During final year, I participated in an eleven-day residential field trip to Kenya, which focused on the trade-off between conservation and development in a range of ecosystems.

Overall, I found that the broad background of this programme was a great basis for whichever route within the environmental sector I wanted to take.

FURTHER INFORMATION

http://naturalscience.tcd.ie/undergraduate/environmental-sciences.php | Email: botany@tcd.ie | 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 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 146.

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.

Functional Biology provides a broad education in the comparative physiology of animals and plants. It integrates physiology, developmental biology and genetics approaches to understanding how organisms function.

Our understanding of how animals and plants function and interact has grown rapidly in recent years, bringing important insights about how they have evolved. Such discoveries influence society in many ways from medical applications to global politics.

What will you study?

This course integrates selected modules from Zoology, Plant Sciences and Genetics, focusing on comparing and contrasting animal and plant physiology. The Junior Sophister (third) year provides a broad knowledge and understanding of animal and plant biology with an emphasis on comparative physiology, developmental biology and evolution. A series of small class tutorials, led by academic staff across the disciplines, is designed to enhance integration. 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 as follows

- Tutorials: Current topics in Functional Biology
- Genetics for Functional Biology: Neurogenetics, Gene Expression, Plant Molecular Genetics I
- Plant Physiology
- Comparative Physiology
- Developmental Biology
- Plant Molecular Biology
- Parasitology
- Plant Structure, Anatomy, Metabolism
- Experimental Design and Analysis
- Broad Curriculum (see page 19)

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
- Research Comprehension – Interpretation and Discussion of Research Data
- Tutorials in Zoology: Developmental Biology, Evolution, Biomedical Parasitology, Eyes and Vision
- Tutorials in Plant Science: Plant Molecular Biology, Plant Physiology
- Environmental Physiology
- Data Handling

Careers

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, including molecular biology and biomedicine. 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 or pursuing a medical or veterinary qualification at the graduate level.

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 146.
Alternatively, to study human genetics exclusively, students should apply to course TR073 – Human Genetics see page 168.

What is Genetics?

Genetics is the study of genes, genomes and heredity.

Is this the right course for you?

If you are interested in understanding the principles of inheritance; how genetic mechanisms control different developmental and physiological processes in biology; and how a perturbation of these mechanisms leads to disorders and diseases, this is the right course for you.

Why study Genetics at Trinity?

The Department of Genetics at Trinity is housed in the Smurfit Institute. There are 14 members of faculty and a number of academic associates, working in a wide range of areas of genetics covering everything from medical genetics to evolutionary genetics. The Department of Genetics at Trinity has an international reputation for high-quality research and more than 50 years of experience in teaching genetics to undergraduate students. Our teaching is research-driven, meaning that undergraduate students are instructed by active research scientists with excellent track-records.

What will you study?

During the Junior Sophister (third) year, students will learn about the fundamentals of genetics through a combination of lecture courses and practical classes. To this end, students will be exposed to different areas of genetics ranging from bacterial genetics, to plant genetics, to medical genetics. Practical classes teach the students about key techniques and analysis methods that are widely used in genetics laboratories. In the Senior Sophister (fourth) year, students can choose, largely depending on their interests, from a number of lecture courses on different areas of genetics. They also spend 10 to 12 weeks in a laboratory of the institute and participate in ongoing research projects. They further write an in-depth literature review on a current topic of genetics.

THIRD (JUNIOR SOPHISTER) YEAR

Bacterial Genetics, Eukaryotic Molecular Genetics, Genomics, Neurogenetics and Drosophila, Medical Genetics, Evolutionary Genetics, Molecular Genetics Laboratory, Analytical Genetics Laboratory, Data Handling, Genetics tutorials, Review (Genetics), Broad Curriculum (see page 19).

FOURTH (SENIOR SOPHISTER) YEAR

Literature review, Research project, Medical & Cellular Genetics (which contains the following courses: Cancer Genetics, Transgenic Animals & Gene Therapy, Genetics of Perception, Prion-Like Proteins, Apoptosis, Stem Cell Biology, Plant Developmental Genetics), Analytical & Molecular Genetics (which contains the following courses: Genetics and Immunology of Neural Diseases, Molecular Evolution II, Microbial Molecular Genetics, Plant Molecular Genetics II, Developmental Genetics of Drosophila, Human Evolutionary Genetics, Genetics of Neural Development, Behavioural Genetics, Epigenetics).

INTERNSHIPS

The Department helps students to secure internships in research laboratories (both in Ireland and abroad) over the summer in-between the third and fourth years so that they can gain valuable research experience.

Careers

Many genetics graduates go on to higher degrees (M.Sc. and/or Ph.D.) and take up careers in research in either academia or industry (especially in the biotechnology or pharmaceutical sector). Other students go on to medical school and become physicians, or they become science teachers or genetic counsellors, or are employed in a wide range of other professions.

Graduate Profile | **Bennett Thomson**

Applying for Genetics at Trinity has been one of the best decisions I have made to prepare me for a future in science.

Not only has specialising in Genetics allowed me to learn about a diverse range of topics taught by enthusiastic, research-focused lecturers at the forefront of their fields, the extensive practical modules have also offered invaluable experience in developing essential laboratory skills.

The Smurfit Institute of Genetics has an international reputation for high-quality research, and having the opportunity to study in an environment that cultivates scientific excellence has been paramount in equipping me with the necessary skills to pursue a career in research.

FURTHER INFORMATION

Visit us: An Open Day takes place every year, typically at the beginning of March. However, visits can also be arranged upon request.
www.tcd.ie/genetics | Tel: **+353 1 896 1140** | Email: genetics.secretary@tcd.ie

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 146.

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 honour programme. An honours degree is awarded in both subjects. For subjects that combine with Geography, see page 28.

RELATED COURSES

TR029: Political Science and Geography, page 104

TR077: Earth Sciences, page 166

What is 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.

Why study Geography at Trinity?

- Trinity is ranked in the world top 100 universities for Geography (QS World University Rankings by Subject 2015).
- In recent years, Sophister (third and fourth) 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.

What will you study?

The first (Junior Freshman) 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 1024' which considers the following themes:

- Climate change
- Global atmospheric and ocean systems
- Global geoecology
- 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 second (Senior Freshman 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.

THIRD AND FOURTH (SOPHISTER) YEARS

There are three compulsory modules in the third year:

- Advanced Research Methods in Geography I
- Advanced Research Methods in Geography II **(which includes an overseas field trip)**
- History and Philosophy of Geography

There are also additional optional modules covering a wide range of subjects that include:

- Geographic Information: Data and Tools
- Glacial Geomorphology
- Globalisation
- Deserts of our Solar System
- Environmental Governance 1

For their 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
- Environmental Governance Ii
- 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-Sorbonne, Prague (Charles University), Utrecht or Stockholm universities.

Careers

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** | Geography blog: **https://twitter.com/Planetgeogblog**
Facebook: **www.facebook.com/tcd.geoblog**

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 146.

Graduate Profile | **Dr Catherine Duggan**

For me, Geology was one of the best kept secrets ever. I chose it as one of my first year subjects in the Science degree without knowing much about it. Geology combines elements of physics, chemistry and biology, and changes the way you look at the world around you. An integral part of the course were the field trips – they were hard work, out all day (in not always the best weather) but the social element was brilliant. Because of them you get to know the whole department – students, postgrads and staff, making it much better than a purely lecture-based course.

What is Geology?

Geology is the study of the earth, its processes, its materials, its life, and how these have changed over 4.567 billion years of time. Information gathered by geoscientists helps us understand the changing climate, predict earthquakes and volcanic eruptions, find supplies of fossil fuels and mineral ores, maintain clean air and water, understand the motion of the earth's crust and oceans, and reconstruct the evolution of the rocky planets and life.

Is this the right course for you?

If you like science, care about the earth, are fascinated by the natural world and enjoy working outdoors, then consider Geology. Geology attracts people who wish to study the dynamics of the Earth we live on, its resources, and the most economic and sustainable way to use these resources.

Why study Geology at Trinity?

At Trinity, our staff investigate the fundamental principles of geological processes, which occur at a vast range of spatial and temporal scales. We combine fieldwork in Ireland, across Europe and around the world, with laboratory analyses, numerical modelling and theory. Students participate in this cutting-edge research whilst developing keen observational and analytical skills taught both in the field and the laboratory. Our graduates apply these skills to a wide range of geoscientific questions, aimed at understanding Earth's history and its future, and the sustainability of energy and resources required to support a growing human population.

What will you study?

In the third (Junior Sophister) year, a thorough grounding is provided in all major branches of geology. In the Senior Sophister (fourth) year you will take a series of compulsory courses, but also four optional subjects from a wide range covering both academic and applied areas of geology. In your Sophister years you will also have the opportunity to undertake several field trips to geologically active areas such as Greece and Spain.

THIRD (JUNIOR SOPHISTER) YEAR

- Mineralogy
- Crystalline Rocks 1: Igneous Processes
- Crystalline Rocks 2: Metamorphic Processes and Crustal Melting
- Geological Field Skills 1
- Geological Field Skills 2
- Sedimentology
- Stratigraphy and Mapping Techniques
- Structural Geology
- Geochemistry

FOURTH (SENIOR SOPHISTER) YEAR

(M = mandatory; O = optional)

- Project (M)
- Fieldwork (M)
- Geological Literature (M)
- Global Igneous Petrology (O)
- Organic Petrology, Palynology and Palaeobotany (O)
- Laboratory Project (O)
- Petroleum Geology and Exploration (M)
- Planet Formation and the early Earth (O)
- Economic Geology (M)
- Analysis in Geological, Earth and Environmental Research (O)
- Micropalaeontology and Evolution (O)
- Applied Geophysics (O)
- Hydrology and Water Quality (O)

If you would like to find out more detailed information on all of the modules offered, please visit: **www.tcd.ie/geology/undergraduate/modules**

Study abroad

Further information on the year abroad programme, and a list of partner universities, can be found by emailing our International Student co-ordinator, Quentin Crowley: crowleyq@tcd.ie.

Careers

Geology is a highly interactive, interdisciplinary and rewarding subject. Geology addresses critical issues such as energy, meteorology, water and mineral resources, stewardship of the environment, oceanography, reducing natural hazards for society, planetary science and more. Not only does this major allow students to work on many of society's most important challenges, but it also unlocks lucrative and personally rewarding careers in industry, academia, research and government.

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 due to their adaptability, their many transferable skills and their experience at dealing with incomplete data sets.

FURTHER INFORMATION

www.tcd.ie/geology | Blog: **https://ontherocksgeoblog.wordpress.com** | Facebook: **www.facebook.com/TCDOnTheRocks**
Tel: **+353 (0)1 896 1074** | Email: earth@tcd.ie

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 146.

What is Immunology?

Immunology is the study of the immune system. The immune system has evolved to protect our bodies against infection and cancer and involves the co-ordinated activities of specialised cells, molecules and genes to orchestrate an immune response. Immunology is one of the most rapidly growing research areas in biology and has been shown to have a fundamental role in almost all disease states. Understanding how the immune system works has led to the development of new therapeutics, e.g. antibodies, for the specific treatment of diseases such as rheumatoid arthritis. In addition, we can now harness the immune system such that it can help to fight against infection and cancer. Many pharmaceutical companies have substantial immunology programmes.

Why study Immunology at Trinity?

Trinity is not only the leading centre for immunology in Ireland but it is recognised around the world for its high level of research excellence. Trinity is currently the only university that offers an undergraduate degree in Immunology in Ireland. Graduating with an Immunology degree puts students in an excellent and competitive position for their future career. Immunology is a dynamic and rapidly expanding subject and this degree provides excellent training from world class researchers and lecturers to enable students to successfully pursue a career in immunology. Third and fourth year students will be based in the new state of the art Trinity Biomedical Sciences Institute (TBSI) on Pearse Street. Our students have the opportunity to study abroad for third year and there are also some **internship** opportunities, in Ireland and abroad.

What will you study?

Students will learn about all aspects of immunology: from the cells and molecules of the immune system and how they carry out their jobs in particular diseases, through to what happens when the immune system goes wrong and actually starts to attack our own bodies, as seen in autoimmune diseases. In order to fully understand the immune system, students will also cover important aspects of biochemistry, genetics and microbiology. One exciting aspect of this degree is that undergraduates experience real research as they undertake a final year project in a research laboratory in the School of Biochemistry and Immunology.

THIRD (JUNIOR SOPHISTER) YEAR

Modules cover Immunology, Microbiology, Biochemistry and Genetics with a strong emphasis on practical skills. There is also a mini-review and a data handling project.

FOURTH (SENIOR SOPHISTER) YEAR

Modules cover advanced topics in immunology and a final year project that takes place in a research laboratory in TBSI.

Study abroad

Students can undertake to spend third year abroad. We have links with universities in Glasgow and Marseille.

Careers

Graduates follow a range of different career pathways. Many of our students are recruited into Ph.D. positions either here or abroad in order to pursue a research based career in the university, medical (hospital based research), or industrial sectors. Some of these are specifically within the area of immunology but other students diversify and use their immunology to branch into other areas. Some graduates go straight into lab based positions as immunologists and these can be in academic, hospital or industrial laboratories, e.g. Pfizer. Other students decide to use their scientific background for non-lab based careers, e.g. science communication and journalism, or science outreach. Some graduates have gone into research support positions, while others have gone on to get a business qualification or law qualification to enable them to be competitive in a business/commercial setting.

FURTHER INFORMATION

www.tcd.ie/biochemistry | Twitter: **https://twitter.com/tcdbi** | Email: clair.gardiner@tcd.ie | 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 146.

What is Microbiology?

Microbiology is the study of the structures and life processes of micro-organisms (such as bacteria, protists, 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.

Why study Microbiology at Trinity?

If you study Microbiology at Trinity you will be based in the historic Moyne Institute. The Microbiology department offers an intimate atmosphere where frequent interaction between staff and students fosters an intellectually stimulating and friendly environment for teaching and learning. The Microbiology course reflects the diversity of research excellence within the department, which is home to world-renowned experts in all aspects of microbiology including virology, infection biology, applied microbiology and biotechnology, bacterial molecular biology and fungal genetics. The Microbiology degree places great importance on giving students first hand practical experience in the laboratory. To support the extensive laboratory experience on offer, the Moyne Institute houses state of the art research and teaching laboratories containing all the equipment and expertise required for modern molecular and cellular microbiology.

What will you study?

THIRD (JUNIOR SOPHISTER) YEAR

Core modules cover all aspects of modern microbiology and include; microbial physiology and biochemistry, pathogenicity and immunology, bacterial molecular biology and genetics, eukaryotic molecular biology and genetics and applied microbiology. **Each module comprises lecture and laboratory components.** The extensive laboratory training covers the safe handling of pathogenic micro-organisms, separation of their components and products, genetic analysis and biotechnological techniques.

FOURTH (SENIOR SOPHISTER) YEAR

In the final year, alongside advanced core microbiology modules, you will also choose from optional modules reviewing the leading edge of research and knowledge in topics such as:

- Gene regulation and expression in bacteria and eukaryotic microbes
- Molecular pathogenesis (disease mechanisms) of bacterial and protozoal infections
- Regulation, issues and standards in current microbiological practice
- Clinical microbiology
- Virology
- 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 bacterial and fungal synthetic biology, design of new anti-microbial drugs, viral pathogenicity and novel methods for disinfection in hospitals.

If you would like more detailed information on all the modules offered, see: **www.tcd.ie/microbiology**

Study abroad

For students wishing to study abroad, Microbiology staff can offer advice on how to seek funding for summer vacation placements from external sources such as the Wellcome Trust and the Society for General Microbiology.

Careers

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 Research and Development (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 | Email: alastair.fleming@tcd.ie | Tel: **+353 1 896 1190**

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 146.

What is Molecular Medicine?

Molecular Medicine is a new area of study that explores the revolutionary advances in disease diagnosis, therapy and prevention brought about by bio-molecular research. It aims to demonstrate how basic science is translated from 'theory to treatment.' Key areas of focus include cancer, neuroscience, genetics, microbiology and immunology. It provides students with a distinct perspective on modern-day science and an appreciation for the importance of basic and clinical research in future drug discoveries.

Is this the right course for you?

Molecular Medicine is a unique collaboration between the School of Biochemistry & Immunology, Trinity Biomedical Sciences Institute (TBSI) and the Dept. of Clinical Medicine, St. James's Hospital. This is the right course for you if you have an interest in topics such as immunodeficiency, autoimmunity and inflammation, neuroscience, endocrinology, microbial diseases, molecular haematology and oncology, diagnostics and therapeutics, the cell cycle, and cancer.

Why study Molecular Medicine at Trinity?

TBSI is equipped with state of the art technologies and provides a rich research environment for interdisciplinary collaboration with colleagues in medicine, pharmacy, chemistry and neuroscience. The Dept. of Clinical Medicine operates from St James's Hospital and is affiliated with the teaching hospitals of Naas General Hospital and Our Lady's Hospice. In the area of biotechnology and biomedical research, Trinity has prioritised the areas of immunology and infection, cancer, neuroscience and genetics – all of which are key components of the Molecular Medicine degree. Immunology at Trinity is externally recognised as an area of major research strength and was recently ranked in the top three nations worldwide (Thomas Reuters, Essential Science Indicators database). In addition, the School of Biochemistry and Immunology at Trinity provides an excellent environment for young investigators to participate in innovative and high impact research. The Schools' research success is evident in their strong publication record which includes output in high quality journals including Nature.

In addition to highly engaging course material, students will gain experimental skills in a range of cutting edge techniques and technologies through practicals, internships in companies such as Ely Lilly and 12-week laboratory placements in the final year of the degree. The courses are designed to equip graduates to work in all major aspects of biochemistry, immunology, and cell biology, and to respond to the rapid pace of development in these fields.

What will you study?

THIRD (JUNIOR SOPHISTER) YEAR

Proteins and Drugs; Cell Biology; Disease and Development – Cancer, Inflammation and Metabolic Disease; Nucleic Acids – Gene Expression, Molecular Genetic Mechanisms, Bioanalysis and Research Skills.

FOURTH (SENIOR SOPHISTER) YEAR

Neurobiology & Endocrinology; Innate & Adaptive Immunity in Disease; Molecular Haematology & Oncology; Microbial Diseases; Autoimmune & Inflammatory Conditions; Genomics, Metabolism & Disease; Molecular Diagnostics & Therapeutics; Cell Cycle & Cancer; Research Project in Molecular Medicine.

If you would like to find out more detailed information on all the modules offered, see: **www.tcd.ie/biochemistry**

Study abroad

Further information on the year abroad programme, and a list of partner universities, can be found at: **www.tcd.ie/biochemistry/undergraduate/socrates.php**

Careers

The course content has relevance to both academia and the healthcare/pharmaceutical sector. Former graduates have gone on to study medicine, engage in postgraduate research (Ph.D.; M.Sc.), and pursue careers in industrial and government organisations. Opportunities also exist in hospital and commercial labs as well as in clinical biochemistry, biotechnology, food science, teaching, information systems, communications, and management.

Student Profile | **Roisin Loftus**

My love for biology in school spurred me to pursue a science-based degree. I entered the Science programme in Trinity in 2009, unsure of where my real passion lay. After two years of general science, covering basic biology, chemistry and maths, I decided Molecular Medicine was the course for me. Molecular Medicine is a relatively new degree in Trinity, which covers many aspects of Immunology, Biochemistry, Genetics, Neuroscience, Microbiology and Human Health & Disease, with a strong clinical focus. A significant portion of our lectures were held in St. James's hospital, delivered by medical doctors. This underpinned the clinical relevance of what we were learning. I am now two years into a four-year biochemistry based PhD in Trinity, and am thoroughly enjoying delving deeper into my area of research, looking at specific immune cell activation and function.

FURTHER INFORMATION

www.tcd.ie/biochemistry | Twitter: **twitter.com/tcdbi** | Tel: **+353 1 896 1608** | Email: aidunne@tcd.ie

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 BY2208.

For details of the first two years of the Science course, including entry requirements, see page 146.

What is Neuroscience?

Neuroscience is the discipline concerned with the scientific study of the nervous system in health and disease. It probes the intricate processes 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.

Is this the right course for you?

Neuroscience is an ideal topic for students who have an interest in how the brain works in health and disease. Additionally, the topic is suited for students who like approaches involving concepts and techniques from a variety of disciplines.

Why study Neuroscience at Trinity?

Trinity has a strong research focus in Neuroscience centred around the Institute of Neuroscience (TCIN) with 45 research groups and 250 researchers investigating a variety of topics related to Neuroscience. There is an active and lively research community, including undergraduate and graduate students, postdoctoral fellows and principal investigators. The interdisciplinary character of TCIN allows for fruitful interactions between scientists with various backgrounds. The neuroscience community regularly meets at seminars, coffee mornings and social events to discuss the latest news in the field and beyond. Trinity neuroscientists are well respected by the neuroscience community worldwide and are regularly present at international meetings and in publications.

What will you study?

Neuroscience links neurobiology with cognitive science and, as a result, modules are provided by six different Schools (Medicine, Pharmacy, Psychology, Natural Sciences, Genetics, Biochemistry). 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.

THIRD (JUNIOR SOPHISTER) YEAR

- Basic Laboratory Skills for Neurobiology, Neuroanatomy, Neurophysiology I, Neurochemistry I, Neurogenetics & Drosophila Genetics, Developmental Biology, Cellular Physiology, Biochemistry in Health and Disease, General Principles of Pharmacology, Nucleic Acids, Research Skills, Broad Curriculum (see page 19).

FOURTH (SENIOR SOPHISTER) YEAR

- Neurophysiology II, Neurochemistry II, Neuroimmunology, Neuroinflammation and Experimental Neuropathology, Neuropharmacology, Neuropsychology, Neurogenetics, Scientific Literature Skills

If you would like more detailed information on all the modules offered, please visit: **www.tcd.ie/neuroscience**

Study abroad

Some students have the opportunity to travel abroad (mainly to the UK and US) for **internships** during the summer.

Careers

Graduates in Neuroscience can expect to find employment in a wide range of areas, utilising their general scientific training as well as their specialist skills. In the past Neuroscience graduates have pursued careers in academic, government, pharmaceutical, biotechnology or medical research organizations. A few graduates study for a higher degree in neuroscience, biological or psychological research, medicine or allied health related disciplines. For those not seeking a research career, the course provides transferable experience and expertise that is suitable for a wide variety of careers, e.g. in education, business, management and industry.

Student profile | **Lisa Ardill**

I chose Neuroscience because I wanted to learn the specific molecular and anatomical reasoning behind the actions, behaviours and interactions that we encounter in each other every day. Neuroscience seemed like a great choice, because it has many different aspects and studies the nervous system from a genetic, immunological, anatomical, pharmacological and neurophysiological standpoint. Another reason I wanted to study Neuroscience was the opportunity to learn about various neurological and neurodegenerative diseases, as well as potential methods of lessening or curing such diseases, and the chance to begin a career in such research areas following my degree.

FURTHER INFORMATION

www.tcd.ie/neuroscience | Tel: **+353 1 896 8484**

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 146.

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.

Why study Physiology at Trinity?

In the Physiology Department at Trinity (which is part of the School of Medicine) we focus on human physiology and how it is affected by disease, although a comprehensive understanding of physiology will also involve studying comparisons in 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.

What will you study?

THIRD (JUNIOR SOPHISTER) YEAR

Nerve, Muscle and Sensation; Cell and Tissue Structure; Gut, Metabolism and Hormones; Seminars in Pharmacological and Physiological Research; Physiology of Brain; Nerve and Muscle Fluids; Heat and Metabolism; Cardiovascular Physiology; Respiratory Physiology; Journal Club; Research Skills.

FOURTH (SENIOR SOPHISTER) YEAR

Synaptic Properties; Biomechanics and Neural Control of Movement; Cellular Neurophysiology; Techniques in Cellular Physiology; Integrative Physiology.

During the second half of fourth year you will undertake an individual research project. This project will be based in Trinity or in one of its associated hospital departments and will include a literature survey and production of a written dissertation. Some typical recent research projects have looked at the toxic effects of cannabis on brain cells, gastric motility in patients with pancreatitis, respiratory function in lung disease, the cellular mechanisms of memory formation, cardiovascular adaptations in athletes and muscle performance after different warm-up protocols.

RESEARCH INTERNSHIP OPPORTUNITIES

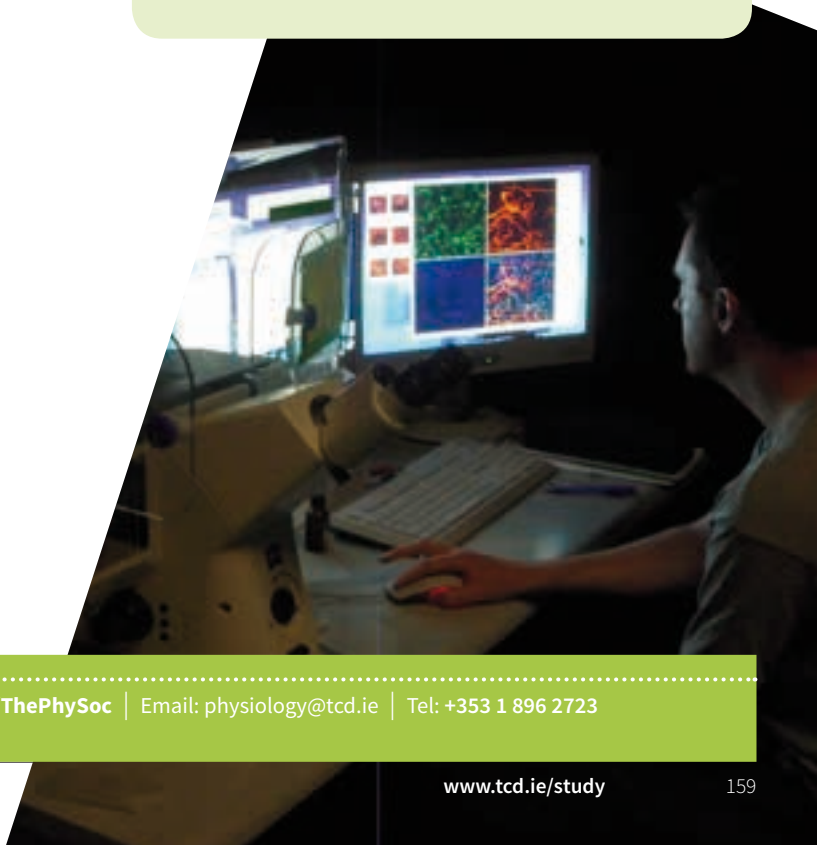
Our students have gained Wellcome Trust Biomedical Vacation Scholarships and Health Research Board Summer Student Scholarships to work in research laboratories between their third and fourth year.

Careers

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.

Graduate Profile | **Sinead Smith**

Choosing Physiology as my speciality through Science was the best decision I made. The course is very well organised and the small class size gives students the opportunity to work together. I felt so much support during my two years in Physiology; the department staff are very friendly and the lecturers are very approachable. The course structure and content give students an excellent range of both theory-led and practical-based learning opportunities. It helped me to develop a standard of learning to perform at Masters level. I am now in the final year of my M.Sc. in Physiotherapy.



FURTHER INFORMATION

www.medicine.tcd.ie/physiology | Twitter: **twitter.com/ThePhySoc** | Email: physiology@tcd.ie | Tel: **+353 1 896 2723**

Physics, Physics and Astrophysics

What is Physics?

Physics is the study of the natural or material world and natural phenomena around us, including the fundamental particles of nature and their interactions, properties of atomic nuclei, atoms, molecules, gases and solid matter. It covers fields such as astrophysics, cosmology, and physics of materials. The laws of physics are the laws which govern electricity and magnetism in modern devices such as mobile phones, computers, the internet, radio and television broadcasts, the mechanics of aviation and space flight, quantum mechanics underlying magnetic resonance imaging in medicine etc.

What is Astrophysics?

Since the dawn of human civilisation humans have gazed in wonder at the night sky. Astrophysics – the exploration of our solar system and the universe beyond – is still a major part of human endeavour in science. It covers everything from the sun and other stars to planets, galaxies and the cosmic microwave background.

Are these the right courses for you?

If you like doing experiments and working in the lab, if you are interested in how the universe began and evolved, or if you enjoy physics, technology, computing, maths and solving problems then you should consider studying Physics or Physics and Astrophysics.

Why study Physics degrees at Trinity?

Physics at Trinity enjoys a worldwide reputation, and provides an exceptionally stimulating environment for study and for subsequent postgraduate work. This course offers you the opportunity to study with world-leading experts in the School of Physics, with modules designed to provide you with a flexible qualification for employment across a range of research and industrial settings.

Our Physics and Astrophysics course includes a strong background in core physics subjects as well as specialised courses in topics such as astronomical instrumentation, spectroscopy, the solar system, stellar evolution, supernovae, galaxies, interstellar matter, black holes and cosmology.

What will you study?

Students follow the Science (TR071) course in their first two-years and must take the prescribed modules in Physics and Mathematics in both years, which will include Introductory Astrophysics, Thermodynamics, Electricity, Sound and Optics, Nuclear Physics and Quantum Physics. Students spend three hours per week in the experimental or computer laboratories.

In Junior Sophister (third) year, Physics and Physics & Astrophysics students spend one day per week in the experimental laboratory. Students study a wide variety of specialised modules tailored to their chosen course as well as receiving training in communication and presentation skills. All third year students have the opportunity to meet with past graduates of the School of Physics through the 'Wild Geese' programme where they receive guidance on building a career in physics.

During the fourth year, students carry out **a research project in either an academic or industrial research laboratory**, the duration and the topic of which is also tailored to their specific course. **Many students carry out their final year project abroad**, mainly across Europe, Canada and America. This unique opportunity allows our students to develop their practical skills in a research environment, while learning about different countries and cultures.

MODULES: PHYSICS

THIRD (JUNIOR SOPHISTER) YEAR

Quantum Mechanics, Electromagnetism, Condensed Matter Physics, Atomic and Nuclear Physics, Stellar and Galactic Structure, Statistical Mechanics, Dynamical Systems, Practical in Physics.

FOURTH (SENIOR SOPHISTER) YEAR

Quantum Physics, High Energy Physics, Condensed Matter, Nanoscience, Electromagnetic Interactions, Modern Optics, Advanced Topics in Physics and Practical in Physics.

MODULES: PHYSICS & ASTROPHYSICS

THIRD (JUNIOR SOPHISTER) YEAR

Quantum Mechanics, Electromagnetic Interactions, Condensed Matter Physics, Atomic and Nuclear Physics, Stellar and Galactic Structure, Computer Simulation, Statistical Thermodynamics and Astrophysical Spectroscopy, Experimental Techniques for Astrophysics, Practical in 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 (third and fourth) 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 146.

Physics is also an important part of the following courses:

TR035: Theoretical Physics, page 176.

TR076: Nanoscience, Physics and Chemistry of Advanced Materials, page 174.

FOURTH (SENIOR SOPHISTER) YEAR

Planetery and Space Science, Cosmology, Computer Simulation, Quantum Physics, High Energy Physics, Electromagnetic Interactions, Modern Optics and Practical in Physics and Astrophysics.

If you would like more detailed information on all the modules offered, see: **www.physics.tcd.ie**

Study abroad

Physics students may undertake their nine-week fourth year project at a university in the EU or further afield, provided they attain a sufficient standard in the third year examinations. 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.

Further information on the year abroad programme, and a list of partner universities, can be found at: **www.tcd.ie/study/non-eu/study-abroad**

Careers

The Trinity physics degrees are all recognised by the Institute of Physics, which is the professional body for physicists in Ireland and the UK, as qualifications for the professional title 'Chartered Physicist' (CPhys). Physics graduates are always in high demand in Ireland and abroad 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 in the meteorological service. There are diverse opportunities in electronics, telecommunications, biophysics, hospital and health physics, automation and computing. Your degree course will give you the opportunity to acquire problem solving skills which will be valued by your future employer. It could also give you useful primary training for a legal, managerial or actuarial career, where a technical background is attractive.

Graduate Profile | Michael Byrne

After four great years studying Physics at Trinity, I headed to Oxford for an M.Sc. degree in applied mathematics before beginning a PhD in climate science at MIT.

I spend most of my time running climate simulations under the supervision of another Trinity Physics graduate, Paul O'Gorman. This involves extensive use of the coding skills I honed in the undergraduate computer lab practicals in the School of Physics. Research questions I'm working on include: Why, under global warming, do land temperatures increase more than ocean temperatures? How will the terrestrial water cycle change in the future? What effects do land surface properties have on monsoon circulations?

FURTHER INFORMATION

Maths/Physics Open Day is held in November each year, see page 23

www.tcd.ie/physics | Twitter: **@TCD_Physics** | Email: dowlingu@tcd.ie | Tel: **+353 1 896 1675**

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 and 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 146.

Student Profile | **Anne Doyle**

The course is one of very few science courses where students have the opportunity to embark on inspiring field trips to Gran Canaria and Kenya. It is so varied that it covers many areas in biology including biochemistry, genetics, ecology, conservation and physiology. I accumulated a tremendous range of skills ranging from laboratory techniques, field research, reporting to knowledge of national and European Law. The important thing to remember when considering Plant Sciences is that you will graduate as a scientist and not as a gardener. I am currently working in a specialist scientific recruiting agency which is part of Cpl.

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.

Why study Plant Sciences at Trinity?

Trinity's Plant Sciences course is unique in content in Ireland and uncommon in a European context. Uniquely, we integrate small-group teaching, field-based activities and the laboratory. Field-based teaching in ecology, physiology and plant evolution is at its heart: we consider both the whole plant and how it works in a natural context. All staff are research active with high profile, strong research interests in Ireland and the tropics. Our alumni occupy positions of note in many areas: examples include Teagasc, the OPW, Glasnevin, Kew, Edinburgh, Oman and the Missouri Botanical Gardens, Barclay Crop Protection and the UK Carbon Capture and Storage Research Centre. Consistently, our graduates have rated our course very highly indeed.

What will you study?

Trinity 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 campus, the Trinity 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 fourth year.

All students are given the opportunity to participate **in field courses** which take place in Ireland and the Canary Islands (Gran Canaria).

THIRD (JUNIOR SOPHISTER) YEAR

Plant Physiology; Fundamentals of Ecology; Plant Molecular Biology; Plants and the Irish Environment; Seminars, tutorials and workshops; Lower Plant Diversity and Evolution; Angiosperm Diversity and Systematics; Environmental Dynamics; Field Skills in Plant and Environmental Science (Canary Islands); Entomology; Experimental Design and Analysis; Broad Curriculum module (see page 19).

FOURTH (SENIOR SOPHISTER) YEAR

Research project; Plant Conservation and Biodiversity; Data Analysis; Global Environmental Change; Seminars, tutorials and workshops; Plant-Animal Interactions; Plant Breeding and Biotechnology; Tropical Ecology Field Trip; Environmental Impact Assessment; Estuarine Ecology.

If you would like more detailed information on all the modules offered, see: **www.tcd.ie/botany**

Study abroad

Two of the field courses on offer are based abroad and there are potential opportunities available to study abroad in institutions with which we have a Memorandum of Understanding.

Careers

When you graduate you can move directly into a career related to plant biology, such as nature conservation, environmental consultancy, environmental protection, plant evolutionary biology or agricultural research as well as teaching at second-level. Alternatively, you might decide to go on to take a higher degree in Trinity or elsewhere. The skills you acquire in the third and fourth years are also widely applicable in business and industry.

FURTHER INFORMATION

www.tcd.ie/botany | Facebook: **www.facebook.com/pages/botany-department-trinity-college-dublin/359289924093179**
Blog: **http://botanytcd.blogspot.ie** | Email: botany@tcd.ie | Tel: **+353 1 896 1274**

Zoology

Students who wish to study Zoology apply to the Science degree (TR071) and may select Zoology as their specialist area for the third and fourth years.

First (Junior Freshman) year prerequisites: Biology 1101 and 1102, Mathematics or Mathematical Methods.

Second (Senior Freshman) year prerequisites: Biology BY2201, BY2202, BY2203, BY2208.

For details of the first two years of the Science course, including entry requirements, see page 146.

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 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 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.

Careers

Many graduates are pursuing academic and research careers in Ireland and overseas. Others have entered the agricultural and fisheries sectors, the wildlife service, and aid agencies, as advisers and technical experts and as inspectors and managers. Trinity Zoology graduates have furthermore taken up publishing of wildlife magazines and educational literature, film making and careers in the media, fish farming, computer software development, second and third-level teaching, museum work, tourism, environmental lobbying with organisations such as Greenpeace, environmental consultancy and wildlife conservation and management.

FURTHER INFORMATION

www.tcd.ie/zoology | Tel: **+353 1 896 1366**

Chemistry with Molecular Modelling

COURSE CODES:	TR074
PLACES 2015:	5
POINTS 2014:	505
DEGREE AWARDED:	B.A.

What is Chemistry with Molecular Modelling?

Chemistry with Molecular Modelling is a chemistry based course (see TR071 Chemistry, page 149) which is a creative science that is used to develop everything from new materials such as superconductors for new batteries, to a new drug molecule for the pharmaceutical industry. Without it, many modern science disciplines such as materials science, molecular biology and environmental science would not be possible. Chemistry with Molecular Modelling embeds computer modelling techniques and how they can be applied to understand and explore chemistry. Advancements in molecular modelling have led to an explosive growth in a range of applications. The modelling aspects of this course focus 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 implementation of different approaches to modelling materials

Is this the right course for you?

The course will suit you well if you have an interest in science and chemistry in particular, have a logical and inquisitive mind and want to work in industry or research after university.

Why study Chemistry with Molecular Modelling at Trinity?

This degree is designed to train our students with the creative talent and skills required for research and industry. The course provides a broad base in organic, inorganic and physical chemistry so that our graduates have a wide selection of career prospects. This degree also provides students with the unique opportunity to study the fundamentals of modern chemistry, whilst developing skills in applying computer modelling techniques to the exploration of chemical problems.

The School of Chemistry at Trinity has a small but dedicated staff applied to both teaching and research. This has allowed the School to build a nationally leading and internationally competitive research programme, including involvement in TBSI (biomedical science) and CRANN (materials and nanoscience). This has led to the School of Chemistry at Trinity having the highest international ranking of any chemistry school in Ireland (QS World University Rankings by Subject 2015).

What will you study?

The course is based on the Chemistry degree with core components of chemistry (inorganic, organic and physical) taken along with special molecular modelling modules, practical work and project work. You will be assessed by a combination of continuous assessment and end-of-year examinations.

FIRST AND SECOND (FRESHMAN) YEARS

You will study the same foundation courses in chemistry and mathematics and one of biology or as students in the Science course – TR071 (see page 146). This includes a series of lectures on molecular modelling and a number of computational based laboratories. Special lectures are given to introduce the concepts of molecular modelling and to highlight applications.

THIRD AND FOURTH (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, optimisation, modelling protein structure, drug design, molecular dynamics, and modelling in solid-state materials chemistry.

Lectures are complemented by laboratory experimental classes where you will gain experience in more sophisticated preparative chemical techniques and spectroscopic analysis. About one third of your laboratory class time will be spent in computer laboratories performing computational experiments using molecular modelling.

As a fourth-year student you will undertake 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

RELATED COURSES

TR071: Chemistry, page 149

TR075: Medicinal Chemistry, page 172

TR076: Nanoscience, Physics and Chemistry of Advanced Materials, page 174

research project, typically from September to December. This may be done in Trinity or in an academic or research laboratory abroad. This is complemented by lectures in core fundamental material in organic, inorganic and physical chemistry. In addition, an extensive range of optional courses are also offered that allow each student to develop her/his own particular interests.

If you would like more detailed information on all the modules offered, please visit: **www.chemistry.tcd.ie/undergraduate/molecular-modelling**

Study abroad

The School of Chemistry has exchange agreements with a large number of other universities and research institutions where students may carry out their final-year research projects. Centres where students have completed their research projects include Vienna, Berlin, Bologna, Toulouse, and Utrecht in Europe, as well as many others in North America, China and Australia.

Careers

A chemistry degree combines specialist practical training with analytical, problem-solving and presentation skills and is excellent preparation for graduates considering a diverse range of career paths. Our graduates can pursue postgraduate degrees either in the School of Chemistry or in other world-class research institutions. Trinity's chemistry graduates are highly sought after by the chemical and pharmaceutical industries, which contribute some 20% to Ireland's exports.

Former graduates of Trinity Chemistry are working in companies such as Henkel, Pfizer, Glaxo-Smith-Kline and Bristol Meyers Squib. Patent offices, government advisory and information services, libraries, public analytical laboratories, schools and third-level institutions also employ our chemists.

Other successful routes graduates have taken in the past include careers in business and financial services sectors and in management. In addition, the specially developed computational skills make graduates an attractive prospect for employers both within computing environments and in other professions. Examples of industries where people are employed directly in scientific computing/modelling include: pharmaceutical (computational drug design), chemical (developing catalysts), materials chemistry (semi-conductors/magnetic materials), financial services and meteorology.

Student Profile | **Aron Walsh**

I chose Chemistry with Molecular Modelling out of my childhood love for chemistry and Nintendo, and didn't really know what to expect. It was not until the final year research project that I realised the power (and fun) of computer modelling. After completing a PhD in Molecular Modelling at Trinity I worked for the U.S. Department of Energy and I am now a Professor at Bath University and research energy materials. I have had the opportunity to present my research around the globe and pursuing a career in science has allowed me to experience a world I never knew existed.

FURTHER INFORMATION

www.tcd.ie/chemistry/undergraduate/molecular-modelling

Contact: **Prof. Graeme Watson** | Email: watsong@tcd.ie | Tel: **+353 1 896 1357**

Earth Sciences

COURSE CODES:	TR077
PLACES 2015:	19
POINTS 2014:	475
DEGREE AWARDED:	B.A.

What is Earth Sciences?

Earth Sciences combines the study of geography, geology, environmental science, chemistry and physics, to provide a complete understanding of how the Earth works. It is centred on the concept of Earth System Science which views the planet as a complex system of interconnected parts and considers the flows of matter and energy operating within and between these components. The changes occurring within and among elements of the Earth system, along with the role that humans play as part of this process, are key topics of study.

Is this the right course for you?

Are you concerned about climate and environmental change? Are you interested in getting to the heart of the science behind the media 'spin'? Do you want to know how the Earth works, from the top of its atmosphere to the centre of its core? Are you seeking a qualification that will give you access to a broad range of careers? If the answer to these questions is yes, then Earth Sciences may well be for you.

The Earth Sciences degree at Trinity provides the scientific basis for understanding many of the major challenges that society faces in the 21st century. The spectacular success of our species has been fuelled by our ability to harness Earth's natural resources and manipulate them for our own purposes. With the number of people on the planet set to top 10 billion before the century is out, it is critical that we learn how to manage the Earth in a sustainable manner, whilst dealing with the legacy of our planetary tinkering. Rather than simply teaching about subjects such as global warming, sea level rise, extreme weather, environmental degradation, biodiversity loss and extinction, this course explores the underlying processes at work and provides the context necessary to identify and evaluate the effects of human activities.

Student Profile | **Clare Stead**

The small class size made us a close-knit group from the start which made for a friendly atmosphere. The strong practical element of the course was great, both for reinforcing what we learnt during lectures and bringing the class together as a group. The final year fieldtrip to Sicily was a highlight for me – we got to see the beautiful Turkish Steps, stand inside an old lava tube, and even watch glowing lava flows at night as they erupted from Mount Etna!

Why study Earth Sciences at Trinity?

At Trinity you will learn from internationally renowned earth scientists whose current research is integrated into the course. Traditional lectures are complemented by practical training in laboratory classes, which provide hands-on experience, employing a range of techniques and equipment. Fieldwork, including two overseas field courses, is an integral part of the programme, with further opportunities to work outside the classroom as part of your independent research project. This project will introduce you to the exciting world of scientific research and the process by which new knowledge is developed.

Our final year students research topics that are drawn from across the full spectrum of Earth Science and have included: reconstructing environmental and climate change by analysing ancient vegetation, land surfaces and ocean temperatures around Ireland; probing African lakes to understand the frequency of volcanic eruptions and causes of vegetation change; analysing images from Martian landers and satellites to understand the physical process operating on another planet; hunting for economic trace metal deposits in discarded mine waste; and analysing the geochemistry of individual mineral grains to understand the plumbing of an active volcano.

What will you study?

The first two years of this course cover the foundation modules, while students may tailor the degree to their own preferences in the final two years. The Freshman (first two) years provide a grounding in the physical and geosciences with particular emphasis on physical geography, geology and human-environment interactions. In the third year, you will begin to deepen your knowledge in particular subject areas, whilst developing a range of practical and technical skills. This year culminates with your selection of a specialist area of research that will form the focus of your final year project, and your participation in an overseas field course. In the fourth year, you will complete a significant piece of independent research on your chosen specialism (dissertation) as well as broadening your field experience during the final overseas field course. You will complete your studies by building your own programme, comprising advanced, research-led modules taught by staff in geography and geology.

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

Note: There may be additional costs for students related to field trips.

RELATED COURSES

TR001: TSM, page 28

TR071: Science, page 146

FIRST (JUNIOR FRESHMAN) YEAR

Introduction to Geography I: Physical; Introduction to Geography Ii: Human – Environment; Junior Freshman Geology; Foundation Physics for Life and Earth Sciences; General and Physical Chemistry; Mathematical Methods.

SECOND (SENIOR FRESHMAN) YEAR

Dynamic Earth 1: Rocks and Evolution; Dynamic Earth 2: Structure and Microscopy; Earth Sciences Field Course; Geochemistry for Earth Scientists; Physical Geography: Changing Environments; Human Geography: Changing Worlds; Physics for Earth Scientists; Broad Curriculum Module (see page 19).

THIRD (JUNIOR SOPHISTER) YEAR

Advanced Research Methods in Earth Science; Geological Field Skills 2; Practical Physical Geography; Deserts of our Solar System; Sedimentology; Glacial Geomorphology; Periglacial Geomorphology; Microscopy and Crystalline Rocks; Human Origins; Reconstructing Ocean and Coastal Change.

FOURTH (SENIOR SOPHISTER) YEAR

Earth Sciences Research Project; Earth Sciences Sophister Field Course; Understanding Environmental Change; Glacial Geomorphology; Periglacial Geomorphology; Human Origins; Reconstructing Ocean and Coastal Change; Global Igneous Petrology; Analysis in Geological, Earth and Environmental Research; Micropalaeontology and Evolution; Organic Petrology, Palynology and Palaeobotany; Hydrology and Water Quality; Planet Formation and the Early Earth; Climate Change.

If you would like more detailed information on all the modules offered, see:
www.naturalscience.tcd.ie/undergraduate/earth-science.php

Careers

There is currently a global shortage of geoscientists. Careers leading directly from Earth Sciences include work in: environmental, engineering and geological consultancies; mineral exploration companies; the oil industry; environmental planning; government geological surveys; teaching and research. Many of our graduates have gone on to work in research in Ireland and abroad. Others have chosen to further develop their skills in particular specialist areas such as petroleum exploration, hydrology, GIS and Earth Observation and have been admitted to a range of postgraduate taught programmes. Further information on life after an Earth Sciences degree is available on our Facebook page (see below).

FURTHER INFORMATION

www.naturalscience.tcd.ie/undergraduate/earth-science.php | Facebook: **www.facebook.com/TCDEarthSciences**
Email: earthsci@tcd.ie | Tel: **+353 (0)1 896 1074**

Human Genetics

COURSE CODES:	TR073
PLACES 2015:	15
POINTS 2014:	560
DEGREE AWARDED:	B.A.

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.

What will you study?

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.

FIRST AND SECOND (FRESHMAN) YEARS

In the first and second 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 (TR071) students: Biology, Chemistry and Mathematics in the Junior Freshman year and Biology modules BY2201, 2203, 2204, 2205, 2208 and 2209, Chemistry and Mathematics in the Senior Freshman year. In addition you will have a weekly genetics tutorial with faculty from the Department.

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	OC3 or HD3	Mathematics
	HC3	In two of Physics, Biology, Chemistry, Physics/Chemistry, Mathematics and Applied Mathematics
GCSE	Grade B	Mathematics
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

RELATED COURSE

Genetics, page 152.

THIRD AND FOURTH (SOPHISTER) YEARS
In the third and fourth 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 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?

- 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 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.

Careers

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**

Mathematics

COURSE CODE:	TR031	TR001 (TSM)
PLACES 2015:	30	25
POINTS 2014:	540	545*-570* (see page 29)
DEGREE AWARDED:	B.A.	

What is Mathematics?

Mathematics has a rich and varied history stretching back many millennia. In ancient Babylon and Egypt, people developed practical mathematical skills for solving problems related to surveying and accountancy. Great mathematicians such as Archimedes, Eudoxus, Euclid and Apollonius in ancient Greece and its colonies developed mathematics as a deductive science founded on logic, delving deeply into the basic principles of geometry and the theory of numbers. Mathematicians of the seventeenth and eighteenth centuries developed the basic principles of calculus that are fundamental to the applications of mathematics in areas of science and engineering. Mathematicians of the nineteenth and twentieth centuries developed the subject in a myriad of directions, discovering and classifying algebraic structures that, though initially considered part of pure mathematics with no obvious practical application, found surprising applications in areas such as cryptography, the automatic correction of errors in data transmission and computer graphics.

Much of contemporary mathematics is concerned with the theory and applications of infinite-dimensional spaces, and novel mathematical methods were developed to develop basic understanding and solve practical problems arising in the physical and biological sciences, engineering, management science, economics and finance. In recent decades deep and surprising connections were made between modern theoretical physics and theories developed by pure mathematicians over many decades concerning geometrical and topological properties of curved spaces in many dimensions that, at the time they were developed, were not perceived as having particular relevance to physics.

Is this the right course for you?

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.

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.

Why study Mathematics at Trinity?

Trinity is justly proud of its long tradition of excellence in mathematics. Research interest in the School of Mathematics is enormously varied; ranging from the abstract ideas of differential geometry and analysis to practical ideas of numerical analysis, modelling and computer algorithms; the nature of fundamental particles and general relativity; non-linear systems and fluid mechanics. This departmental diversity is reflected in the specialist degree-level courses available to students. 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.

What will you study?

These programmes are 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 year developing skills and understanding in Calculus and Linear algebra. Single honour students also take introductory modules in group theory, mechanics statistics and computing in the first year. In the second year much of the programme consists of compulsory modules in the areas of real and complex analysis, algebra, topology, and mathematical methods together with a choice of optional modules in areas such as probability, statistics and mechanics. In the third and fourth years of the programme, you will be able to specialise in the areas that appeal most to you.

Further details are to be found on the School of Mathematics website at the following location:
www.maths.tcd.ie/undergraduate

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	HB3	Mathematics
Advanced GCE (A-Level)	Grade B	Mathematics

TR031: Mathematics is studied as a single honour course.

TR001 (TSM): **Mathematics must be combined with one other subject within the two-subject moderatorship (TSM) programme.** TSM is a joint honour programme. An honours degree is awarded in both subjects. For subjects that combine with mathematics see page 28.

RELATED COURSE

TR035: Theoretical Physics, page 176

Study abroad

You may choose to spend the third year at a European university as part of the Erasmus exchange programme. In particular, there are agreements in place that allow study at the University of Durham (UK) and Université Lille 1 (France). Also, in recent years some students have spent the third year at universities in the United States of America and in Australia under exchange programmes.

Careers

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.

Graduate Profile | Aoibheann Brady

The maths degree at Trinity allowed me to explore a wide range of topics, and the research programmes for undergraduates guided my decision to pursue a PhD at the University of Bath. I also worked in finance during summers and after graduating, the possibilities open to me have been incredibly broad.

The course had great social aspects: I have made friends for life through the Mathematical Society and was a founding member of the “Ireland for CERN” campaign – an experience not available elsewhere.

The standard of courses, the opportunities, and the level of support and engagement of academic staff make choosing the degree a fantastic decision.

FURTHER INFORMATION

www.maths.tcd.ie/undergraduate | Email: mathdep@maths.tcd.ie | Tel: **+353 1 896 1949**

Medicinal Chemistry

COURSE CODE:	TR075
PLACES 2015:	28
POINTS 2014:	525
DEGREE AWARDED:	B.A.

What is Medicinal Chemistry?

Medicinal chemists are the creative talent behind the modern pharmaceutical industry. As well as being expert chemists, they have extensive knowledge of molecular design, drug synthesis and the biological function of drugs.

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 mechanisms by which they operate, if you have a natural flair for chemistry and are interested in developing the skills and expert knowledge relevant to the pharmaceutical industry.

Why study Medicinal Chemistry at Trinity?

Medicinal Chemistry at the School of Chemistry provides you with a broad knowledge of chemistry, but focuses on and extends to topics relevant to the design and production of medicinal compounds and to understanding their biological action.

What will you study?

In the first two years you will follow the Science (TR071) programme, taking chemistry (CH1101 and CH1102), biology (BY1101 and BY1102) and mathematics in the first (Junior Freshman) year. In second (Senior Freshman) year, you will take chemistry and prescribed units of biology with the option of further biology or mathematics modules. In addition, special sessions held specifically for medicinal chemists will introduce you to the ideas and techniques of medicinal chemistry.

Graduate Profile | **Dr Robin Daly**

I would encourage any student wishing to pursue a career in the global pharmaceutical industry to take Medicinal Chemistry. The more varied an undergraduate experience that a student has, the better equipped they are to secure employment in the pharmaceutical industry. Medicinal Chemistry at Trinity can open many doors within both academic and industrial settings.

THIRD (JUNIOR SOPHISTER) YEAR

In third year, the course will branch off into more specialised aspects of medicinal chemistry, although there will be considerable overlap with the Chemistry degree. This overlap is primarily in organic chemistry; less emphasis will be placed on physical and inorganic chemistry in order to allow for the delivery of medicinal chemistry courses.

Your specialised medicinal chemistry modules will include:

- Basic Principles of Medicinal Chemistry
- Biochemistry (Protein Structure and Function)
- The Autonomic Nervous System
- 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 drugs in this area)
- Steroid Drugs (study of drugs based on the steroid skeleton)
- Industrial Medicinal Chemistry

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.

FOURTH (SENIOR SOPHISTER) YEAR

In fourth year, in addition to core chemistry modules, you will cover the medicinal chemistry of the cardiovascular and central nervous systems, combinatorial 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 under the supervision of a member of staff, in a chemistry department at an overseas university, or in a commercial laboratory.

If you would like more detailed information on all the modules offered, please visit **chemistry.tcd.ie/undergraduate/medicinal-chemistry**

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

Study abroad

The School of Chemistry has exchange agreements with a large number of other universities and research institutions where Medicinal Chemistry students carry out their final year research projects from September to December. To date, arrangements have been made for students in European universities such as Regensburg, Madrid, Liverpool, Copenhagen, Montpellier and Bologna. Study further afield in Canada and the USA is also possible.

Careers

As with graduates in other branches of chemistry, the skills acquired during this degree programme 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 that are open to you as a Medicinal Chemistry graduate. Former graduates of this course are working in companies such as Pfizer, Abbot, GlaxoSmithKline, Servier, and Deloitte and Touche.

Medicinal Chemistry would serve as an excellent primary degree for a graduate course in medicine. Our graduates can also pursue postgraduate degrees either in the School of Chemistry or in other world-class research institutions.

FURTHER INFORMATION

www.chemistry.tcd.ie/undergraduate/medicinal-chemistry | Facebook: **'TCD Chemistry'** | Twitter: **@TCD_Chemistry**
Email: chemistry.department@tcd.ie | Tel: **+353 1 896 3411**

Nanoscience, Physics and Chemistry of Advanced Materials (NPCAM)

COURSE CODES:	TR076
PLACES 2015:	20
POINTS 2014:	595
DEGREE AWARDED:	B.A.

What is Nanoscience?

The ability to create new technologies or functional devices would not be possible without mastering advanced materials at the nanoscale. New methods of fabricating or interacting with such nanostructures is what nanoscience is all about. Nanoscience incorporates applications in energy, photonics, medical diagnostics, ultra-fast electronics and many other areas. These include superconductors, polymers, lasers and optoelectronics and affect industries such as electronics, telecommunications, healthcare and even airlines. Nanodevices may behave in surprising ways, unlike miniaturised versions of the macroscopic devices. Making devices smaller by approaching the nanoscale can reduce energy cost, while increasing speed or adding functionality. Further energy conversion and storage are important research fields of advanced materials.

Is this the right course for you?

If you enjoy laboratory work and have the desire to apply your scientific skills to industries and technologies that are shaping our world, then this may be the course for you.

Why study Nanoscience at Trinity?

Studying Nanoscience at Trinity offers you the opportunity to learn from world-leading experts based in the Schools of Physics and Chemistry, and in CRANN (Centre for Research on Adaptive Nanostructures and Nanodevices), which is Ireland's research centre for nanoscale materials. This degree will teach you how to use and apply principles of chemistry and physics to solve practical problems associated with the development of new technologies and their application to Nanoscience.

What will you study?

In the first two years, you will follow the Science (TR071) programme, taking chemistry, physics and mathematics. There will be special tutorials on historical and modern aspects of nanoscience and materials science from leading experts based in the Schools of Physics and Chemistry. There are approximately 15 hours of lectures/tutorials and 6 hours of laboratory classes per week.

THIRD (JUNIOR SOPHISTER) YEAR

In third year, students really begin to specialise in Nanoscience. Six hours per week are spent in the specialised nanoscience teaching laboratory, where they will be introduced to a wide range of techniques for the synthesis, preparation and characterisation of nanoscale materials. Additional laboratory training is provided in CRANN using their state of the art facilities.

Modules

- Quantum Mechanical Concepts in Physical Chemistry
- Molecular Thermodynamics and Kinetics
- Solid State Materials
- Analytical Methods
- Quantum Mechanics
- Electromagnetic Interactions I
- Condensed Matter I
- Condensed Matter II
- Practical in Nanoscience and Advanced Materials

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	OA2 or HC3	Mathematics
	HC3	In two of Physics, Chemistry, Biology, Physics/Chemistry, Applied Mathematics and Mathematics
GCSE	Grade A	Mathematics
or		
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

RELATED COURSES

TR035: Theoretical Physics, page 176
TR071: Science, page 146
TR074: Chemistry with Molecular Modelling, page 164
TR075: Medicinal Chemistry, page 172

FOURTH (SENIOR SOPHISTER) YEAR

The fourth year course further explores nanoscience theory and its applications including more advanced solid state physics and chemistry, non-linear optics, materials for electronic and optoelectronic devices, computer simulation and advanced growth techniques. In this year, students also carry out a **major research project**, where they become familiar with the applications of advanced materials, nanostructures or nanodevices in real-life situations. **The project can take place in Trinity or can be pursued abroad in an academic or industrial research laboratory.**

Modules

- Advanced Physical Chemistry II
- Materials Chemistry I
- Materials Chemistry II
- Condensed Matter III
- Nanoscience
- Photonics
- Advanced Topics in Physics
- Practical in Advanced Materials

If you would like more detailed information on all the modules offered, see: **www.tcd.ie/nanoscience/undergraduate**

Study abroad

Many students carry out their final year research project abroad, mainly in Belgium, France, Germany, North America or China. Recent examples of 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; the University of Alberta, Canada, and the University of Wollongong, Australia, and the University of Potsdam (Universität Potsdam), Germany.

Further information on the course programme, and a list of partner universities, can be found at: **www.tcd.ie/nanoscience/undergraduate/ss**

Careers

The Nanoscience degree is recognised by the Institute of Physics, which is the professional body for physicists in Ireland and the UK. This degree will provide graduates with a flexible qualification for employment in cutting-edge high technology industries such as the semiconductor, polymer and optical industries. Our graduates will be strongly sought after in the knowledge economy, where their interdisciplinary training in physics and chemistry will give them a clear edge in solving practical problems in high-tech industry. There are also opportunities to carry out postgraduate study in nanoscience, a key research area in Trinity itself with world class facilities in CRANN (**www.crann.tcd.ie**). Graduates of the course are now working in a range of fields, including multinationals such as Intel, indigenous start-ups and in further academic research.

Student Profile | **Cathal O'Connell**

I completed my degree in NPCAM in 2008. During my final year I got the opportunity to undertake a short research project at the University of Wollongong, Australia. Developing this contact is probably the most life-defining outcome of the course for me, as it led to my PhD position in Australia. I found that NPCAM provided a very solid fundamental understanding of both physics and chemistry. This has allowed me to transition between fields and between projects, and to publish in both chemistry and physics journals. The course also placed a strong emphasis on developing physical models to explain new phenomena. These skills have been invaluable in my later research.

FURTHER INFORMATION

A Maths/Physics Open Day is held in November each year, see: **www.physics.tcd.ie/outreach** | **www.tcd.ie/nanoscience**
Twitter: **@npcamtcd** | Email: npcam@tcd.ie | Tel: **+353 1 896 1675 / 2024**

Theoretical Physics

COURSE CODES:	TR035
PLACES 2015:	40
POINTS 2014:	550
DEGREE AWARDED:	B.A.

What is Theoretical Physics?

Theoretical Physics explores the natural world at its most fundamental level, using mathematical theories guided by experimental investigation. For some it is the foundation for an academic career in mathematics or physics. For others it provides the basis for many career options in industry, medicine, law, finance and computing. Trinity provides a course which ranges widely across physics and mathematics. Its graduates are in demand for their technical skills and versatility.

Is this the right course for you?

If you enjoy mathematics and seeing how physical theories can be developed to unlock the secrets of the universe on every scale from the quark to the Big Bang, you will be stimulated by this course. If you want to keep a wide range of options open for the future, you can do this in Theoretical Physics. It consistently attracts a spirited and talented class that makes the most of the Trinity experience.

Why study Theoretical Physics at Trinity?

Trinity is a world renowned university for physics and mathematics with a long tradition of excellence in teaching and research. The course offers a unique mixture of pure and applied mathematics and physics courses taught by faculty with international reputations in their research fields. There are excellent facilities, for example the School of Physics has individual Junior Freshman (first year), Senior Freshman (second year) and Sophister (third and fourth year) labs. Additionally, the School of Physics is affiliated with and has access to state of the art research facilities within CRANN (the Centre for Research on Adaptive Nanostructures and Nanodevices) and the advanced microscopy lab (AML).

In the School of Mathematics students will be taught by active researchers working in areas of theoretical physics, such as string theory, quantum field theory and general relativity, as well as pure mathematicians. The School of Mathematics provides its own computing network comprising a dozen linux machines acting as servers and about 60 workstations for undergraduates and staff. In addition, the school boasts the finest mathematics research library in Ireland, with over sixteen thousand books and a current subscription to over one hundred journals.

Assessment for courses is through a mixture of homework, laboratory reports, presentations and end-of-year exams.

	First and Second (Freshman) Years	Third (Junior Sophister) Year	Fourth (Senior Sophister) 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	▸ Algebra ▸ Analysis ▸ Mechanics ▸ Equations of Mathematical Physics	▸ Classical Field Theory and Electrodynamics ▸ Quantum Mechanics ▸ Statistical Physics	▸ Quantum Field Theory ▸ Differential Geometry ▸ General Relativity ▸ Partial Differential Equations Other mathematical modules and a project option are available each year
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	Topics in both classical and modern physics are taken: The Physics of Motion, Thermal Physics, Oscillations and Waves, Optics, Materials, Quantum physics, Nuclear Physics, Electromagnetic interactions, Special Relativity, Chaos and Complexity, Astrophysics. There are laboratory classes and group study projects	▸ 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	▸ Condensed Matter Theory ▸ Electron and Photon Physics ▸ High Energy Physics Optional courses are in: ▸ Nanoscience ▸ Advanced Topics ▸ Interstellar Medium and Cosmology ▸ Computer Simulation In addition you will complete a computational physics project. There are also tutorials to develop your physics problem solving ability

SPECIAL ENTRY REQUIREMENTS		
Leaving Certificate	HB3	In Mathematics and Physics
Advanced GCE (A-Level)	**Grade B**	In Mathematics and Physics

RELATED COURSES

TR031: Mathematics, page 170
TR071: Science, page 146
TR076: Nanoscience, Physics and Chemistry of Advanced Materials, page 174

What will you study?

The course combines much of the mathematics and physics curricula, including several modules specifically designed with the Theoretical Physics programme in mind. The final year includes a project which is carried out working closely with individual faculty members to develop an original piece of research.

Study abroad

Theoretical Physics students can spend up to a year, usually the third year, of their studies at a university abroad, either in Europe via Erasmus exchanges or further afield via a considerable number of bilateral agreements between Trinity and universities ranging from the Australian National University to the University of California and New York University in the United States.

Careers

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, as this degree provides graduates with a strong foundation in highly complex problem-solving skills as well as logical and abstract thinking, 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 actuarial science, patent law, journalism, weather forecasting, telecommunications, medical physics, information technology, scientific computing and teaching.

Student Profile | Manya Sahni

I chose Theoretical Physics in Trinity because I wanted the best possible understanding I could get in university about the laws that govern our universe. I loved solving problems. If you go through the definitions and practice using the theorems, it all comes together in this magical moment and, suddenly, you find you know how to solve a problem. It is the most challenging and rewarding thing I have done in my life. It is worth all the work I put in to now have an idea of how black holes work. I would like to pursue a masters or a PhD in particle physics or quantum gravity. Theoretical Physics has given me the problem-solving and analytical skills to research these topics.

FURTHER INFORMATION

The Math/Physics Open Day (MPOD) is held in November each year.
www.maths.tcd.ie/info_for_schools or: **www.physics.tcd.ie/outreach** | **www.maths.tcd.ie** or: **www.physics.tcd.ie**
Email: kod@maths.tcd.ie or: dowlingu@tcd.ie | Tel: **+353 1 896 1949 / 2019** | Twitter: **@TCD_physics**

HEALTH SCIENCES

46	Clinical Speech and Language Studies
180	Dentistry
180	Dental Hygiene
182	Dental Nursing
184	Dental Science
186	Dental Technology
188	Dental: Orthodontic Therapy
189	Human Health and Disease
190	Human Nutrition and Dietetics
192	Medicine
194	Nursing
194	General Nursing
194	General Nursing (Adelaide)
194	Mental Health Nursing
194	Intellectual Disability Nursing
194	Integrated Children's and General Nursing
198	Midwifery
200	Occupational Therapy
202	Pharmacy
204	Physiotherapy
206	Radiation Therapy

Dental Hygiene (Diploma)

COURSE CODES:	TR802
PLACES 2015:	8
POINTS 2014:	415*
AWARD:	Diploma

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 counselling 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.

What will you study?

This two-year course is based in the Dublin Dental University Hospital at Trinity. 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.

FURTHER INFORMATION

www.tcd.ie/dental | Contact: Lecturer in Dental hygiene: **Catherine Waldron** RDH, MSc.
Email: catherine.waldron@dental.tcd.ie | Tel: **+353 1 612 7369**

This is a restricted entry course. Applications must be submitted by 1 February 2016.

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 219.

Students will be required to undergo Garda vetting, see page 219 for further details.

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-bride 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 a reasonable level of patient care, and a final written and clinical examination.

Careers

The Diploma in Dental Hygiene conferred by Trinity 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.

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 courses of study are available to dental hygienists, including the Diploma in Orthodontic Therapy (see page 188).

Dental Nursing (Diploma)

COURSE CODES:	TR801
PLACES 2015:	25
POINTS 2014:	355*
AWARD:	Diploma

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.

Is this the right course for you?

If you have an interest in working as part of a dental team in the delivery of oral healthcare and have a caring and understanding disposition, this may be the course for you.

Skills required of students considering dental nursing include communication and organisation skills, the ability to use initiative, and the 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.

Through the course you will be able to develop good patient skills and learn to communicate effectively in a healthcare environment.

Why study Dental Nursing at Trinity?

This **two-year course** is based in the Dublin Dental University Hospital beside Trinity's campus. Clinical facilities are of a very high standard and class sizes are small, so that students receive considerable staff input into their progress throughout the programme. The course is very practical throughout, allowing students to progressively develop practical clinical skills. 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.

What will you study?

The Diploma in Dental Nursing 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.

Dental Nursing students attend DDUH from Monday to Friday, from 8.30am to 5pm, but there will be opportunities to enjoy university 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.**

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

First year is assessed by written examinations, practical examinations, continuous clinical assessment and an oral presentation.

Second year is assessed by written examinations, objective structured clinical examination (OSCE), a portfolio of clinical experience, case study written report and an oral presentation.

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 219 for further details.

Careers

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 co-ordinator, lecturer in dental nursing, and the area of health promotion.

Further courses of study are available to dental nurses, including the Diploma in Orthodontic Therapy (See page 188).

FURTHER INFORMATION

www.tcd.ie/dental

Contact the Dental Nurse Tutor | Email: dentalnursetutor@dental.tcd.ie | Tel: **+353 1 612 7238**

Dental Science

COURSE CODES:	TR052
PLACES 2015:	32
POINTS 2014:	575*
DEGREE AWARDED:	B.Dent.Sc.

What is Dental Science?

Dental Science is the study of the oral cavity and the diseases associated with oral tissues. 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. In recent years there has been an exponential advance in dental science with greater emphasis on preventing disease as well as the development of new, minimally invasive methods and materials for restoring teeth.

Is this the right course for you?

If you have an ability to build caring and professional relationships with patients, co-workers and the wider community and if healthcare interests you, specifically oral healthcare and its impact on individuals, then Dental Science is right for you. You should also enjoy undertaking physically and mentally demanding clinical practice, which requires considerable attention to detail with small margins for error. The course is long (five years) and intense, requiring stamina and commitment.

Why study Dental Science at Trinity?

This course is based in the Dublin Dental University Hospital beside Trinity campus. Clinical facilities are of a very high standard, emphasising the use of information technology. Class sizes are small, to ensure 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.

What will you study?

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 study subjects in an integrated manner and within a context relevant to future clinical situations. Structured problems are set to meet specified learning objectives and students (under supervision) 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. Lectures, demonstrations, simulations, audio-visual and e-learning opportunities are also provided.

From second year onwards, you will provide patient care in the clinic under the strict supervision of qualified dental staff.

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 particular communication skills, learning how to interpret and explain 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. Clinical training begins half way through second year with students learning the vital basic skills of history taking, examination and diagnosis and 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 years 3 to 5, you will be encouraged to undertake the management of oral health and disease which is based on the best available scientific evidence. In tandem with this, you will also need an awareness of general healthcare issues for individuals and communities. In these three years you will provide more complex patient care.

SPECIAL ENTRY REQUIREMENTS

Leaving Certificate	HB3 + HC3	In two of: Physics, Chemistry, Biology or Physics/Chemistry 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

All offers of admission to this course are made subject to infectious disease testing. See precautions against infectious diseases page 219.

Students will be required to undergo Garda vetting, see page 219 for further details.

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 fourth year may participate in English-speaking Erasmus exchange programmes with dental schools in Norway, Sweden or the UK. Between the fourth and fifth year, some students undertake voluntary placements in a wide variety of international locations.

Careers

There are a wide range of career options open to newly qualified dentists, from 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, specialising in one area within dentistry. Dentistry gives 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 Bachelor of Dental Science (B.Dent.Sc) conferred by Trinity entitles EU citizens to register 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 EU such as the UK, France, Germany, etc.

Graduates wishing to practice in countries outside the EU may be required to pass specified examinations. However, there is a mutual recognition agreement between Ireland and Canada whereby Irish dental graduates may practice dentistry in Canada without the necessity to complete additional study.

Student Profile | **Gillian Smith**

As both an undergraduate and postgraduate student in the School of Dental Science, Trinity, I received an education second-to-none along with exceptional support from academic and clinical staff alike. This has enabled me to take great pride and find joy and satisfaction in my day-to-day working life. The quality of teaching opened many doors for me and I have developed an interesting and successful career path that owes much to my training in the School of Dental Science.

Gillian was awarded the Sensodyne Dentist of the Year in 2012.

FURTHER INFORMATION

www.dentalhospital.ie/education | Email: info@dental.tcd.ie | Tel: **+353 1 896 2043 / 1690**

Dental Technology (Ordinary Degree)

COURSE CODES:	TR803
PLACES 2015:	6
POINTS 2014:	385
DEGREE AWARDED:	B.Dent.Tech.

What is a Dental Technician?

Dental technicians work in a laboratory which is usually remote from the dental clinic. Dental technicians work to the prescription of a dentist; they perform the laboratory aspects of dentistry – fabricating crowns and bridges, dentures, maxillofacial and orthodontic appliances, which are intended for use by the patient. Dental technicians have good manual dexterity skills and are required to work with different materials for the fabrication of the various appliances. Dental technology is changing with more emphasis on the use of CAD (Computer Aided Design)/CAM (Computer Aided Manufacturing) in the laboratory. The restoration of dental implants has also become more commonly part of the daily routine of a dental technician.

Is this the right course for you?

The study of dental technology will appeal to you if you are interested in science and art, combined with working in a team. If you have an interest in oral health and are simultaneously creatively minded then dental technology may be for you. A good background in basic sciences and a flair for art or good manual dexterity skills are essential to becoming an excellent dental technician. Dental technology also requires precise and scientific expression therefore, good writing skills are important.

Why study Dental Technology at Trinity?

Trinity is the only university in Ireland offering a degree in Dental Technology. The course is based in the Dublin Dental University Hospital, on the Trinity campus, with state of the art facilities, emphasising the use of information technology such as Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM) in a clinical laboratory environment. Class sizes are small, ensuring that students receive considerable staff contact and the staff is actively involved in student progress throughout the programme.

What will you study?

Dental Technology at Trinity is a **three-year ordinary degree** programme. Most of the teaching takes place in the Dublin Dental University Hospital (DDUH). The main aim of the course is to educate and train students to become part of the dental team for the planning, designing and fabrication of intra-oral appliances. Dental Technology is divided into four main areas – fixed prosthodontics, complete denture technology, removable denture technology and orthodontic technology. In the Junior Freshman (first) and Senior Freshman (second) years, a Dental Technology student will spend much of their time (6-8 x 3 hour sessions per week) in the DDUH teaching laboratory. The course is very much hands-on right from the start. Student numbers are small (6), which facilitates practical training of this nature. There is a strong emphasis on student integration with Dental Science students and some modules are integrated accordingly.

In the Junior Sophister (third) year, students are assigned to the production laboratory for experience in providing a service to patients. This offers a competitive advantage over graduates from many other universities. Liaison with the Dental Science students and clinical staff is encouraged and students are advised to spend time in the clinic to observe their complete work in situ. There is the opportunity for students to be placed in external laboratories and there is a possibility of Erasmus exchange in this year too. Students will be busy throughout the year preparing a dissertation, which is presented at the end of the year in addition to a case portfolio of the practical work which the student has carried out over the course of the year.

FIRST (JUNIOR FRESHMAN) YEAR

- Fixed Prosthodontic Technology and Occlusion and Function
- Complete and Removable Partial Denture Technology
- Orthodontic Technology
- Physics
- Chemistry

SECOND (SENIOR FRESHMAN) YEAR

- Fixed Prosthodontic Technology
- Complete Denture Technology
- Orthodontic Technology
- Removable Partial Denture Technology
- Materials Science
- Business Studies

THIRD (JUNIOR SOPHISTER) YEAR

- Fixed Prosthodontic Technology
- Complete Denture and Removable Partial Denture Technology
- Orthodontic Technology
- Dissertation

If you would like more detailed information please visit:
www.tcd.ie/dental

This is a restricted entry course. Applications must be submitted by 1 February 2016.

Applicants will receive a questionnaire in March to be completed and returned.

Leaving Certificate

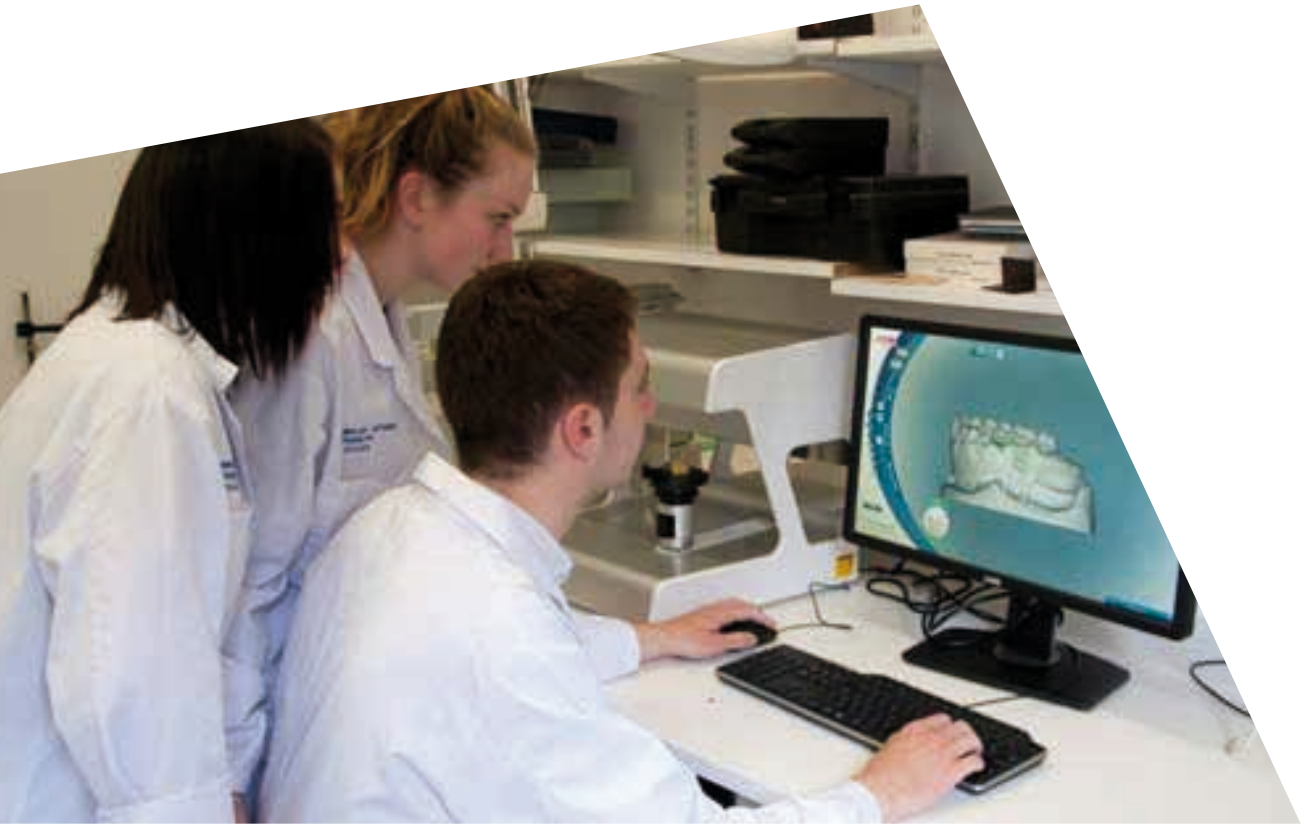
A pass in English, mathematics and in four other subjects, one of which must be physics, chemistry, biology, agricultural science or physics/chemistry.

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.

Note: Students are required to purchase an instrument kit which costs approximately €650.

Careers

This course provides students with a well-rounded education in all aspects of dental technology whilst also challenging their ability to problem-solve. A Dental Technology, degree provides the best foundation for the aspiring dental technician who may progress to work in a laboratory or be self-employed. Dental Technology offers the scope to work and travel abroad. The Dublin Dental Hospital has recently introduced a Postgraduate Diploma in Clinical Dental Technology; one of the prerequisites to securing a place on this course is a qualification in Dental Technology.



FURTHER INFORMATION

www.tcd.ie/dental/undergraduate/dental-technology

Orthodontic Therapy (Professional Diploma)

PLACES 2015:	8
AWARD:	Professional Diploma

This is a restricted entry course. Applications must be submitted by 1 February 2016.

See: **www.tcd.ie/dental/** for details of how to apply.

Applicants **must** satisfy the following prerequisites:

- Dental Hygiene or Dental Nursing qualification
- Current registration with the Dental Council
- Professional indemnity insurance
- Negative HBsAg and Hepatitis C antibody test result
- Garda (Police) vetting
- Current BLS certificate
- IELTS 7 in all domains

Candidates should have at least two years' workplace experience in a private orthodontic practice or a public health orthodontic clinic.

Written support from a suitably qualified orthodontist trainer, registered with the Dental Council, is required. The Orthodontist trainer is required to attend for interview alongside their applicant.

Trainers must attend a 'Training the Trainers' course prior to the start of the Diploma.

All offers of admission to this course are made subject to infectious disease testing.

Students will be required to undergo Garda vetting, see page 219 for further details.

What is an Orthodontic Therapist?

Orthodontic therapists are registered dental healthcare professionals who carry out certain parts of orthodontic treatment. These are treatments which may only be carried out under the supervision of a dentist registered in the orthodontic division of the Register of Dental Specialists. The orthodontist examines the patient and indicates to the orthodontic therapist the course of treatment to be provided. All dental work carried out by the orthodontic therapist must be inspected and approved by the orthodontist.

Is this the right course for you?

If you are a qualified dental hygienist or dental nurse, currently registered with the Dental Council and with at least two years' workplace experience in an orthodontic practice or a public health orthodontic clinic, then this could be the course for you. You should be highly motivated, with excellent manual dexterity, a willingness to learn and good communication skills. You also need the written support of a qualified orthodontist trainer.

Why study Orthodontic Therapy at Trinity?

This course is based in the Dublin Dental University Hospital beside Trinity's campus. Clinical facilities are of a very high standard. Class sizes are small, so that students receive considerable staff input into their progress throughout the programme. The course is very practical throughout, allowing students to progressively develop practical clinical skills. 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.

What will you study?

The course covers the following modules delivered over **12 months**: Professional Development, Biomedical Sciences, Principles of Orthodontics, Orthodontic Records, Communication and Patient Motivation, Removable Orthodontic Appliances, Fixed Orthodontic Appliances.

Assessment: Students are required to complete a portfolio of experience which includes;

(A) a clinical logbook, two case presentations and five interim tests/assignments, and three written examinations

(B) a final examination which consists of a clinical case, an oral examination, a written examination and an OSCE.

Careers

The Professional Diploma in Orthodontic Therapy conferred by Trinity entitles graduates to register immediately after graduation as an orthodontic therapist on the Register of the Irish Dental Council.

Most orthodontic therapists work in specialist orthodontic practices or within specialist orthodontic units/departments in 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.tcd.ie/dental

Contact: Course Administrator: **Natalie McGettigan** | Email: natalie.mcgettigan@dental.tcd.ie | Tel: **+353 1 612 7361**

Human Health and Disease

COURSE CODES:	TR056
PLACES 2015:	35
POINTS 2014:	530*
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 detail, 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 neurons 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?

This course will suit you if you are interested in human biology and want to gain an in-depth, scientific understanding of the structure and function of the human body in health; the signs and symptoms of disease; the molecular basis of disease and cutting edge therapeutics in treating disease. Biomedical research is a fast-paced discipline and our course delivers an up-to-date appreciation of current knowledge in this field and encourages students to foster their analytical study skills and critical thinking to keep up to date with the latest developments.

Why study Human Health and Disease at Trinity?

This is a programme of multidisciplinary study and training in basic and applied biomedical science provided by the School of Medicine in partnership with the School of Biochemistry and Immunology, with collaborators from across Trinity and beyond. The majority of classes take place in the excellent teaching and laboratory facilities in Trinity Biomedical Sciences Institute and in final year, students will conduct a research project in an academic research laboratory in this institute, on main campus, in one of the affiliated teaching hospitals or at one of our Erasmus partner institutions.

What will you study?

The degree is structured around three main interconnecting themes, namely: 1) Basic human biology 2) Applied biomedical science and 3) Transferable skills and Trinity graduate attributes.

FIRST AND SECOND (FRESHMAN) 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.

THIRD AND FOURTH (SOPHISTER) 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 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 and scientific writing skills accompanies end-of-year examinations.

Study abroad

The Human Health and Disease degree programme has formal Erasmus exchange agreements with the Biomedicine Bachelor's programmes at the prestigious Karolinska Insititutet in Stockholm, Sweden, and the University of Gottingen in Germany and students can, on a competitive basis, avail of the opportunity to complete their final year project in a leading international laboratory in either Stockholm or Gottingen.

Careers

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. The skills developed during this course make graduates ideally suited to a broad range of career opportunities. Graduates of Human Health and Disease are well-placed to pursue postgraduate M.Sc. degrees in a wide range of biomedical sciences, PhD research leading to careers in biomedical research, and for graduate entry to study Medicine. Career prospects also include employment in the pharmaceutical and biotechnology industry and in health promotion, education and policy.

FURTHER INFORMATION

www.medicine.tcd.ie/physiology/undergraduate/human_health_disease

Human Nutrition and Dietetics

COURSE CODES:	DT223
PLACES 2015:	25
POINTS 2014:	555
DEGREE AWARDED:	B.Sc. (Hum.Nut.& Diet.)

Course overview

This four-year full-time course is run jointly by the Dublin Institute of Technology (DIT) and Trinity. 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. (honours) degree in Human Nutrition and Dietetics is awarded jointly by DIT and Trinity. 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.

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.

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.

What will you study?

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.

FIRST AND SECOND (FRESHMAN) YEARS

During the first and second 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.

THIRD AND FOURTH (SOPHISTER) YEARS

In the 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 this in an oral presentation.

Careers

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.

SPECIAL ENTRY REQUIREMENTS

This is a joint course between Trinity 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
Email: 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**

FURTHER INFORMATION

www.medicine.tcd.ie/nutrition-dietetics

Additional general information about nutrition and dietetics can also be obtained from: The Irish Nutrition and Dietetic Institute (**www.indi.ie**); The Nutrition Society (**www.nutritionsociety.org**); **CORU** (**www.coru.ie**)

Medicine

COURSE CODE:	TR051
PLACES 2015:	123
POINTS 2014:	731*
DEGREES AWARDED:	M.B. (Bachelor in Medicine), B.Ch. (Bachelor in Surgery) and B.A.O. (Bachelor in Obstetrics).

Student Profile | **Ralph Hurley O'Dwyer**

When I was filling out my CAO form in sixth year, four years ago, I never imagined the range of experiences and opportunities studying Medicine in Trinity would offer me. Medicine in Trinity has given me a broad, stimulating education as well as the chance to get to know people from all over the world.

Last year, I was lucky enough to spend an Erasmus year studying Medicine through French in Nantes, France. Having the chance to work in French hospitals and experience life as a French medical student for a year was an incredible opportunity. I hope to use the skills I gained in France in the future in global health work.

What is Medicine?

Medicine is a unique course in that students study a wide range of subjects with the overarching objective of understanding the science and practice of healing. In today's world, medicine and the practice of healthcare are constantly evolving as new knowledge and therapies emerge to maintain and restore health through the prevention and treatment of illness.

Is this the right course for you?

The medical programme at Trinity is a challenging but highly rewarding experience. A student wishing to study medicine requires an enquiring mind, the capacity to acquire and maintain high levels of knowledge, the ability to develop effective communication skills in order to respond to the health needs of individuals, families and communities and an interest in improving healthcare at all levels.

Why study Medicine at Trinity?

The School of Medicine at Trinity was founded in 1711 and has played a central role in the golden age of Irish medicine. Today, it is an international leader in biomedical research and education, and is ranked in the top 100 universities in the world for Medicine (QS World University Rankings by Subject 2015).

The relatively small size of our School allows staff to get to know students individually in a highly supportive educational environment. Student engagement is encouraged from the outset and this provides a firm foundation for a life-time of practice and learning in medicine.

Students of medicine at Trinity will follow a **five-year programme**. Following graduation you are required to spend one year as an Intern in an approved post before becoming a fully registered medical practitioner.

The major characteristics of medicine at Trinity are:

- Integration of scientific and clinical material and delivery in context
- Clinical contact from the first year of the programme
- Research module in second year
- Continuous review and revision of the assessment programme to ensure alignment with the stated outcomes and course content
- Recognition of the patient as an active partner
- Prioritisation of personal and professional development
- Excellent library facilities on the Trinity campus and on both of the major teaching hospital sites.

What will you study?

FIRST, SECOND AND THIRD YEARS

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 the first year, small group teaching (12-14 students), lectures and practical demonstrations. Self-directed learning and use of e-learning are encouraged throughout the course. The majority of the teaching in first and second year takes place at the School of Medicine, Trinity Biomedical Sciences Institute at the main University campus, with the remainder in the hospital setting. Third year 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

On successful completion of the third year, 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 year 3 modules. The M.Sc. is a one-year full-time programme and the following tracks are currently offered: Molecular Medicine, Neuroscience, Bioengineering, Translational Oncology, Healthcare Infection Management and Immunology. 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.

This is a restricted entry course.

Applications MUST be made online via: **www.cao.ie** not later than 1 February 2016.

Applicants must also register for the HPAT-Ireland admission test by 20 January 2016 (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 223) 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 219 for vaccination requirements with regard to Hepatitis B, Hepatitis C and Tuberculosis.

Students will be required to undergo Garda vetting, see page 219 for further details.

Note: Students will need to purchase a stethoscope (€60+), while students on placements outside Dublin will have additional travel and accommodation costs.

FOURTH AND FIFTH YEARS

During these two years the emphasis is on continuous enhancement of the skills and attitudes acquired in the first three years of the course. There is, of course, 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 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 majority of hospital attachments take place in St. James's Hospital and Tallaght Hospital, Dublin; however, some training also takes place in regional hospitals around Ireland, in hospitals dedicated to particular areas of medicine and in general practices associated with the School.

Further detailed information in relation to the curriculum is available at:
www.medicine.tcd.ie/education/undergraduate/curriculum

TEACHING HOSPITALS

Trinity'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: Coombe Women and Infants University Hospital, Hermitage Medical Clinic, Naas General Hospital, National Rehabilitation Hospital, Our Lady's Children's Hospital (Crumlin), Our Lady's Hospice and Care Services (Harold's Cross and Blackrock), Peamount Hospital, Royal Victoria Eye and Ear Hospital, St. Patrick's University Hospital.

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. Formative assessment and reflective practice are also used to promote the personal development of the student and inform teaching and learning.

Study abroad

The School of Medicine has a strong international network and students have the opportunity to gain experience overseas as part of the electives programme. Students are required to complete clinical electives totalling 12 weeks by the final medical year and these can be undertaken in a hospital, clinic or research laboratory of the student's choice at home or abroad. The School has extensive elective links which include Columbia University (New York, NY), Georgetown University (Washington, DC), University of Pennsylvania (Philadelphia, PA), Northwestern University (Chicago, IL), Johns Hopkins University (Baltimore, MD), University of Illinois at Urbana-Champaign (Champaign, IL), National University of Singapore and American University of Beirut Medical Centre.

There is also an opportunity to undertake a one-year Erasmus exchange at the University of Nantes, France during the third medical year.

Intern year

On completion of the medical degree course a doctor must successfully complete training for one year as a resident medical officer/intern in a recognised post 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. Graduates undertaking internship/residency outside of the Republic of Ireland will be required to register and meet the eligibility criteria of the relevant governing body in that jurisdiction.

Careers

As a doctor, you will have plenty of options to choose from when it comes to making a decision about your career. In Ireland, many graduates 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

www.medicine.tcd.ie | Email: medadmin@tcd.ie | Tel: **+353 1 896 1075**

Nursing:

General Nursing, Mental Health Nursing, Intellectual Disability Nursing, Integrated Children's and General Nursing

COURSE CODES:	PLACES 2015:	POINTS 2014:
TR091 General:	92	415
TR092 General (mature applicants):	14	168*
TR093‡ General, Adelaide:	29	395*
TR094‡ General, Adelaide (mature applicants):	4	169
TR095 Mental Health:	20	390*
TR096 Mental Health (mature applicants):	25	151*
TR097 Intellectual Disability:	17	390*
TR098 Intellectual Disability (mature applicants):	13	144*
TR911 Integrated Children's and General:	15	490
TR912 Integrated Children's and General (mature applicants):	5	171
DEGREE AWARDED:	B.Sc. (Cur.)	

What is a Nurse?

The role of the nurse is to provide evidence-based, culturally-sensitive care in order to assist the individual to lead an independent healthy lifestyle, overcome ill health or experience a peaceful death. The nurse achieves this through working as part of a professional multidisciplinary team to provide primary healthcare, acute hospital care, community and home and continuing care, based on individual and population health needs across the lifespan.

Students of nursing learn about caring and the complexities of health and illness through interactive teaching and learning strategies in the classroom and the healthcare environment. Practice (clinical and community) experience provides the student with opportunities to integrate the art and science of nursing and promotes the development of caring relationships with patients and their families/significant others.

Nursing practice, rooted in compassion, draws upon extensive knowledge and experience to provide physical and psychological care of the highest quality. Nurses take centre stage in ensuring efficient and effective delivery of accessible, integrated and consumer-driven healthcare, creatively designing health related services, and ensure quality through advocacy, policy-making, service management, education and research.

The four-year nursing courses (Integrated Children's and General is 4.5 years) are offered in partnership with six health service providers. Trinity's six linked health service providers for this course are:

GENERAL NURSING
- Tallaght Hospital
- St. James's Hospital

MENTAL HEALTH NURSING
- Health Service Executive Dublin Mid-Leinster
- St. Patrick's Mental Health Services

INTELLECTUAL DISABILITY NURSING
- Stewart's, Palmerstown
- Muiríosa Foundation, Moore Abbey

INTEGRATED CHILDREN'S AND GENERAL NURSING
- The National Children's Hospital at Tallaght Hospital

Is this the right course for you?

Do you love working with and for the benefit of people of all ages and from diverse backgrounds?

If you want a rewarding and respected career with great employment and travel opportunities, then the professional course in nursing could be 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 Trinity.

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 224.

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. 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 219.

Students will be required to undergo Garda vetting, see page 219 for further details.

RELATED COURSE

TR913/914: Midwifery, page 198

Why study Nursing at Trinity?

With over one thousand undergraduate nursing students in Trinity, you will become part of a vibrant student community – the School of Nursing and Midwifery, Trinity is the largest School of Nursing and Midwifery in the country. 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 theory predominantly in the School of Nursing and Midwifery building on D'Olier St, which is a wonderful historic 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's main campus, nursing students are never far from the centre of student life.

What will you study?

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 practice (clinical/community) component.

THEORETICAL COMPONENT

The theoretical component will be taught in the Trinity School of Nursing and Midwifery building, the main Trinity 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.

PRACTICE (CLINICAL/COMMUNITY) COMPONENT

For the practice component you will be linked with one of the health service providers and also have clinical/community placements in a variety of settings. During the fourth year of the course you will undertake a 36 week roster of continuous placement. This placement spans the fourth and fifth years of the Integrated children's and general course.

GENERAL NURSING

General nursing involves caring for and meeting the needs of adults and their carers/families in a variety of hospital and community 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.

- **Medical Nursing** – general/specialist (including day care, outpatients, coronary care, high dependency units)
- **Surgical Nursing** – general/specialist (including day care, outpatients, coronary care, high dependency units)
- **Accident and Emergency and Outpatients**
- **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 nurses work in partnership with the person, family/advocate to enable them to mobilise their own inner as well as professional resources, in a way that promotes personal growth, maximum development of potential and recovery.

- **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

Nursing:
General Nursing, Mental Health Nursing, Intellectual Disability Nursing, Integrated Children's and General Nursing

- **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**

INTEGRATED 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.

In conjunction with the general nursing components of the course, students undertaking the Integrated children's and general nursing course will also study the following:

- **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 for one of the nursing courses you will receive orientation information from Trinity. This information 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 are used.

Study abroad

The Erasmus programme enables students to study at another European university as part of their university degree. This is an exciting opportunity for students to experience an elective clinical placement in another European Union healthcare system which may be provided for a maximum period of twelve weeks duration. Erasmus exchange takes place in semester one of third year (i.e. from September to December).

Trinity nursing students can study at one of our partner universities; we have partnerships with four EU universities for our various nursing courses. Students currently have the opportunity to go on Erasmus to the following (dependent upon nursing discipline): Turku University of Applied Sciences, Finland; University of Malta; University of South Wales; Technical Institute of Education, Athens, Greece.

Careers

Graduates from the Trinity School of Nursing and Midwifery will be competent, innovative and caring professionals who are capable of leading change, shaping policy and responding to an ever evolving healthcare environment.

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 and 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 and Midwifery 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/preregistration | Email: nursing.midwifery@tcd.ie
Tel: **+353 1 896 2692** | Facebook: **'TCD Nursing & Midwifery'** | Twitter: **@TCD_SNM**

Midwifery

COURSE CODES:	TR913	TR914 (Mature)
PLACES 2015:	25	15
POINTS 2014:	450*	171
DEGREE AWARDED:	B.Sc. (A.Obs.)	

What is a Midwife and Midwifery?

The term 'midwife' means 'with woman'. As a midwife, you will be helping women and their 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 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.

Is this the right course for you?

Midwives often describe their job as 'privileged'. The role they have in preparing women for the delivery of new life makes them a vital presence during all stages of pregnancy, labour and the early postnatal period.

This unique role is demanding and carries plenty of responsibility. However, a career in midwifery involves a great deal of professional and personal satisfaction.

If you want a rewarding and respected career with great employment and travel opportunities, then the professional course in midwifery could be for you.

There are two components to the midwifery degree course; 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 Trinity.

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. 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 219 for vaccination requirements with regard to Hepatitis B, Hepatitis C and Tuberculosis.

Students will be required to undergo Garda vetting, see page 219 for further details.

Why study Midwifery at Trinity?

The School of Nursing and Midwifery, Trinity is the largest School of Nursing and Midwifery in the country. You will have the opportunity to meet and mix with students from Ireland and abroad and form cohesive bonds throughout your time with us. Nursing students are taught theory predominantly in the School of Nursing and Midwifery building on D'Olier St, which is a wonderful historic 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's main campus, nursing students are never far from the centre of student life. While on clinical placements, you will be supervised by highly skilled midwives who have been specially prepared to guide and direct your learning.

We also offer opportunities to study abroad and have a large suite of postgraduate courses available to our graduates to facilitate further study needs.

What will you study?

This four-year programme 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.

The first three years combine learning in university and clinical 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.

The majority of the theoretical component of the course will be taught in the Trinity 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 campus 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 three to four days in theory classes each week and each day will consist of approximately six hours per day in lectures, tutorials and laboratory work.

The course is offered in partnership with two linked maternity care providers: The Coombe Women and Infants University Hospital and The Rotunda Hospital. Each midwifery student will be allocated all of their midwifery clinical placements throughout the four years at one of these maternity hospitals. You will begin your first midwifery clinical placement in November of the first year of the course. Before this placement you will have spent approximately one day per week experiencing midwifery practice with lecturers and midwives in the maternity hospitals. You will be required to complete clinical placements each year, which will consist of 30-35 hours (approximately) supernumerary practice per week in a practice setting. Midwifery students will also undertake other clinical placements, for example, mental health, medical and surgical. The final year will include a 36-week period of internship in clinical midwifery practice.

This course will provide you with the knowledge and skills to meet the needs of women and their families in an individualised, culturally sensitive manner.

ASSESSMENT

Assessment of learning in midwifery practice is an important component of the course and will take place throughout the course. Other forms of assessment include written examinations and assignments, presentations, debates, teaching sessions, and clinical practice assessment.

Careers

On completion of this course, the student will be eligible for registration as a midwife with The Nursing and Midwifery Board of Ireland. The course offers an excellent foundation for career advancement in midwifery and further health related studies. It facilitates learning across wide and varied experiences and promotes flexibility for employment within and outside the health services.

FURTHER INFORMATION

http://nursing-midwifery.tcd.ie/undergraduate/preregistration

Email: nursing.midwifery@tcd.ie | Tel: **+353 1 896 2692** | Facebook: **'TCD Nursing & Midwifery'** | Twitter: **@TCD_SNM**

Occupational Therapy

COURSE CODES:	TR054
PLACES 2015:	40
POINTS 2014:	500*
DEGREE AWARDED:	B.Sc. (Cur. Occ.)

What is Occupational Therapy?

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. 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 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 to 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.

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 that 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.

Is this the right course for you?

This is the right course for you 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.

Why study Occupational Therapy at Trinity?

The course is the longest established university-based occupational therapy course in Ireland. It uses many innovative teaching methodologies, including 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.

Occupational Therapy is based in the Trinity Centre for Health Sciences in a purpose-built complex in the grounds of St. James's Hospital. There are state of the art teaching facilities at the Discipline of Occupational Therapy, including a capacity for tele-conferencing. The Trinity Centre houses other health sciences disciplines including Medicine, Physiotherapy, Therapeutic Radiography and Nursing. This gives a multidisciplinary dimension to studying and working with other health professionals. The centre is approximately 3 kilometres from the main campus, beside the Luas line running between Tallaght and the city centre. Some courses on the programme take place on the main campus including psychology, anatomy and social policy, which, in turn, exposes students to the wider facilities and amenities of Trinity.

What will you study?

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.

FIRST AND SECOND (FRESHMAN) YEARS

The courses studied in the first and second 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

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 219.

Students will be required to undergo Garda vetting, see page 219 for further details.

Note: There is an additional cost for a uniform for practice education of approximately €90. There may also be travel and accommodation costs for placements outside Dublin.

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. Assessment includes written examinations, essays, project work, presentations, and competency-based assessment while on supervised practice education.

THIRD AND FOURTH (SOPHISTER) YEARS

During the Sophister 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 practising 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 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 undertaken professional practice placements in Belgium, Scotland, Australia, and Canada.

Careers

As a qualified occupational therapist from Trinity, 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**), so when you complete your degree, you are qualified to work as an occupational therapist in Ireland, as well as abroad. Many graduates from the programme 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 practice 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.

FURTHER INFORMATION

www.medicine.tcd.ie/occupational_therapy | Email: occupthe@tcd.ie | Tel: **+353 1 896 3210**

Pharmacy

COURSE CODES:	TR072
PLACES 2015:	75
POINTS 2014:	560*
DEGREE AWARDED:	B.Sc. (Pharm.), M.Pharm./Optional: B.Sc. (Pharm.) only

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 opens up a wide variety of professional opportunities in both industry and the healthcare sector. A strong interest in science is important to fully enjoy the course.

Why study Pharmacy at Trinity?

Trinity is ranked in the top 100 universities in the world for Pharmacy and Pharmacology (QS World University Rankings by Subject 2015). The School of Pharmacy and Pharmaceutical Sciences has world class facilities with research space in the Trinity Biomedical Sciences Institute (TBSI), which develops Trinity's leadership position in immunology, neuroscience and cancer. The School also has purpose built teaching spaces in the Panoz Institute, including the Boots Unit, a technology-enhanced learning space which allows students to dispense drugs and develop communication skills.

Structured professional placements are integrated throughout the new programme. A particular strength of the Trinity programme is the research project, which may take place abroad and gives students the opportunity to develop focused laboratory or field research with one-to-one supervision.

Student Profile | **Abhishek Wilson Pallippattu**

I have to admit that I was extremely nervous and did not know what to expect on my first day as a Pharmacy student. However, after four years in Trinity, I can say without any doubt that these have been the best years of my life. The B.Sc. (Pharm.) degree provides a perfect balance between academic knowledge and applying this knowledge practice. The small class sizes also mean that the lecturers take time to get know the students. There is no doubt that the course can be challenging; however, this is finely balanced by the social aspect of the course.

What will you study?

The Pharmacy syllabus has been designed to provide you with an all-round education in both the basic and pharmaceutical sciences and in the practice of pharmacy itself. The five-year integrated Pharmacy programme comprises a variety of approaches to teaching Pharmacy by friendly, dedicated, enthusiastic and approachable staff: lectures, seminars, tutorials, workshops, small-group teaching, problem-based learning, site-visits, computer-assisted learning, web discussion boards, wikis, online group assignments, communication skills, career planning, clinical case studies, inter-professional learning, laboratory and dispensing practicals and a research project.

Modules are assessed by final examinations and continuous assessment, such as written assignments, essays, lab reports, OSCEs (objective structured clinical examinations), etc. which contribute to the overall mark in a module. There are approximately 16 hours of lectures, 6 hours of laboratory classes and 1 tutorial per week over the course of the Junior Freshman (first) year. Work experience in clinical and non-clinical settings will be distributed over the second, fourth and fifth year of the integrated Pharmacy programme.

FIRST (JUNIOR FRESHMAN) YEAR

Physiology, Cell and Molecular Biology, Biochemistry, Organic and Inorganic Chemistry for Pharmacy, Physical Pharmacy I, Pharmaceutical Analysis I, Introduction to Pharmaceutics and Formulation, Mathematical Methods and Pharmaceutical Calculations, Practice of Pharmacy I, General Principles of Pharmacology.

SECOND (SENIOR FRESHMAN) YEAR

Properties and Analysis of Materials Used in Medicines, Physical Pharmacy, Formulation and Pharmaceutical Technology, Practice of Pharmacy II, Pharmaceutical Biochemistry and Biotechnology, Molecular and Chemotherapeutic Pharmacology and Clinical Therapeutics, Blood, Cardiovascular and Renal Pharmacology and Clinical Therapeutics.

THIRD (JUNIOR SOPHISTER) YEAR

Medicinal and Pharmaceutical Chemistry III, Natural Sources of Drugs and Substances Used in Medicines, Sterile Products and Advanced Pharmaceutical Biotechnology, Practice of Pharmacy III, Endocrine and Reproductive Pharmacology and Clinical Therapeutics, Respiratory and Gastrointestinal Pharmacology and Clinical Therapeutics, Malignant Disease, Immunopharmacology and Pharmacology of the Eye and Clinical Therapeutics, Neuropharmacology and Clinical Therapeutics.

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/study/eu/undergraduate/apply/pharmacy** for further details.

See Precautions against infectious diseases page 219.

Students will be required to undergo Garda vetting, see page 219 for further details.

Note: In order to qualify to register as a pharmacist with the Pharmaceutical Society of Ireland students must also complete a fifth year, culminating in a M.Pharm. degree. There will be a postgraduate fee associated with the fifth year on the postgraduate register in Trinity, payable by the student. The M. Pharm. degree carries with it an entitlement to apply for registration as a pharmacist.

FOURTH (SENIOR SOPHISTER) YEAR

Organisation and Management Skills, Professional Skills Development, Professional Practice, Pharmaceutical Data Analysis & Bioinformatics, Medicinal and Pharmaceutical Chemistry IV, Pharmacokinetics, Pharmacodynamics, Biopharmaceutics & Drug Metabolism, Practice and Therapeutics & Professionalism and Ethics, Research Project.

FIFTH YEAR (M. PHARM. YEAR)

Industrial Pharmacy, Complementary and Alternative Medicine: Context, Legislation, Standards and Practice, Advanced Drug Delivery & Molecular Pharmaceutics, Practice of Pharmacy & Integrated Pharmacy Skills, Addiction Pharmacy, Supply of Medicines and Organisation and Management Skills, Leading the Safe and Rational Use of Medicines, Professional Practice and Public Health, Practice Research Project.

In the fourth and fifth year, you will undertake a research project. The following are some examples of research projects which students have undertaken in the past:

- Prevalence of smoking among inpatients in Tallaght Hospital 2005-2012 and hospital usage of nicotine replacement products
- Anticancer drug design: Chemistry and biochemistry of novel ß-lactams
- In vitro release studies of insulin-loaded nanoparticles in the presence of simulated gastrointestinal (GI) fluids
- A comparison of amorphous solid dispersions prepared by film casting and spray drying
- Development and characterisation of budesonide-containing nanoparticles for inhalation

SUMMER RESEARCH PLACEMENT PROGRAMME

We encourage our students (second and third year students) to undertake the **summer research placement programme**.

This programme allows pharmacy students to carry out their research projects abroad (UK, Germany, Austria, France, US) over the summer (12 weeks) as part of their undergraduate degree programme. Students are either funded by the Erasmus programme or the School.

Careers

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 | Email: pharmacy@tcd.ie | Tel: **+353 1 896 2809**

Physiotherapy

COURSE CODES:	TR053
PLACES 2015:	40
POINTS 2014:	540*
DEGREE AWARDED:	B.Sc. (Physio.)

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.

Why study Physiotherapy at Trinity?

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 two miles from the main campus and is beside a Luas station on the line running between Tallaght and Connolly Station in the city centre.

All students will have clinical placements at Trinity'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.

What will you study?

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**.

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 219
Students will be required to undergo Garda vetting, see page 219 for further details.
Note: Students on placements outside Dublin will have additional travel costs.

FIRST AND SECOND (FRESHMAN) YEARS
As a Freshman 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.

THIRD AND FOURTH (SOPHISTER) YEARS
In the Junior Sophister 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 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.

Careers

Successful completion of the course entitles you to membership of the Irish Society of Chartered Physiotherapists, the accrediting body for physiotherapy in Ireland.

Physiotherapists are sought throughout the world and you will be able to work with a wide range of conditions or to specialise, as you wish. There is also great scope for you to continue to develop your skills and expertise in areas such as manipulative therapy, sports injuries, neurology, cardiology, respiratory, research, education, management or private practice.

FURTHER INFORMATION

www.medicine.tcd.ie/physiotherapy | Tel: **+353 1 896 2110 / 1**

Radiation Therapy

COURSE CODES:	TR055
PLACES 2015:	30
POINTS 2014:	515*
DEGREE AWARDED:	B.Sc. (Ther. Rad.)

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 you will be involved in many aspects of their care during their radiation therapy treatment. As radiation therapy is expanding in Ireland and internationally 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 and the role can be physically and emotionally demanding. 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.

Why study Radiation Therapy at Trinity?

Radiation Therapy is an innovative profession, with constant technological and patient care advancements. The four-year programme will provide you with the necessary academic and practical skills to work in this patient-centred healthcare environment. The programme is delivered by experienced and enthusiastic academic staff, whose focus is on providing you with a research-led, 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 radiation therapy treatment unit. In addition to campus-based learning, you will gain extensive practice education through clinical placements in radiation therapy departments throughout Ireland.

What will you study?

This four-year honours degree gives you a broad academic base on which to develop the clinical skills of radiation therapy. You will be able to analyse, evaluate and make clinical decisions and to initiate, participate in and encourage research in oncology 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. This course assesses both the theoretical and clinical subjects using a variety of methods, including written end-of-year examinations, continuous assessment, individual and group project work, oral examinations, reflective journals and workbooks. A clinical portfolio and research dissertation are a substantial component of the assessment processes in your final year.

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's and Beaumont Hospitals in Dublin; Cork University Hospital, University Hospital Galway; the Mater Private Hospital Dublin, St. Vincent's Private Hospital Dublin, the Galway Clinic; the Mater Private at Midwestern Regional Hospital Limerick, UPMC Beacon Clinic Dublin, UPMC Whitfield Clinic, Waterford, and the Hermitage Medical Clinic, Dublin.

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. There are approximately 20-30 hours per week in class in these years.

A clinical component (clinical placement) will introduce you to radiation therapy and will develop your understanding of the complexities of the cancer patient pathway.

FIRST (JUNIOR FRESHMAN) YEAR

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 1

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 219 for further details.

See precautions against infectious diseases page 219.

Note: There is a charge of €40 for membership of the professional society (IIRRT), and students on placements outside Dublin will have additional travel and accommodation costs.

SECOND (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 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.

THIRD (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 3

FOURTH (SENIOR SOPHISTER) YEAR

Fourth year subjects will cover the following areas:

- Radiotherapy in Practice
- Research Project
- Clinical Practice

Study abroad

Students have the option to undertake two weeks of clinical placement in the radiotherapy department of Gemelli Hospital, Sacred Heart University, Rome, Italy in the summer vacation of the third year.

Careers

There is a need for radiation therapists both in Ireland and internationally. 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 medical marketing.

Student Profile | **Lisa McGrane**

I am enjoying Radiation Therapy as it is varied and there is always a new challenge. In the Freshman years, I studied broader science subjects, such as biology, chemistry and physics. In third year we now focus on subjects more specific to radiation therapy, for example treatment planning. Clinical placement integrates the academic learning with the practical work. You get the opportunity to go to different hospitals across the country so there is always something new to see. My class is quite small, which made it easy to make friends and get to know everyone. Societies are a great way to get to know people in other courses.

FURTHER INFORMATION

www.medicine.tcd.ie/radiation_therapy | Tel: **+353 1 896 3234** | Email: dougallm@tcd.ie
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**; dougallm@tcd.ie
Student profiles: **www.medicine.tcd.ie/radiation-therapy/undergraduate/student-profile.php**
Graduate profiles: **www.medicine.tcd.ie/radiation-therapy/undergraduate/graduate-profile.php**

Fees, Financial Support and Scholarships

Fees & Charges

Tuition Fees

EU STUDENTS

Under the 'Free Tuition Fees Scheme' tuition fees of eligible full-time undergraduate students will be paid by the State. A summary of the criteria is as follows:

a. The course duration must be a minimum of 2 years.

b. The student must be an EU national (or have official refugee status) and must have resided in an EU member state for at least three of the last five years.

c. The student must not already hold an undergraduate (or postgraduate) award.

d. The year of study is not a repeat year.

A full list of the eligibility criteria can be found at:
www.studentfinance.ie/mp9377/course-fees/index.html

EU students who are not eligible for inclusion in the Free Tuition Fees Scheme pay EU tuition fees, see:
www.tcd.ie/academicregistry/fees-payments/course-fees

NON-EU STUDENTS

Non-EU students are liable for Non-EU fees, see:
www.tcd.ie/academicregistry/fees-payments/course-fees

Student Contribution

The student contribution (€2,750 in 2014/15) is payable by all full-time EU students. Funding towards the student contribution may be available from Student Universal Support Ireland (SUSI). Information on the eligibility criteria and the application process can be found at: **www.susi.ie**

Other Charges

Commencement (Graduation) fee: Students are required to pay their commencement fee (€135 for 2014/15) prior to registration.

Sports Centre Charge: All registered students are liable for the Sports Centre Charge (€90 for 2014/15) to cover the cost of membership of the Trinity Sports Centre.

USI Levy: The USI Levy (€8 for 2014/15) cover a student's membership of the Union of Students of Ireland. This is an optional charge.

Further details on fees available at:
www.tcd.ie/academicregistry/fees-payments

Financial Support

There are numerous financial resources available to undergraduate students studying at Trinity. The level of financial support varies depending on each student's situation.

A comprehensive list of Bursaries/Awards is available on the Senior Tutor's Office website. For more information on financial support for third-level students, see: **www.studentfinance.ie**. For information on the third-level grant (SUSI grant) see: **www.susi.ie**

Anyone can apply for financial assistance; however, the applications are means tested and you will need to provide documentation such as bank statements, P21s, social welfare documents etc. Application forms are available from the Senior Tutor's Office website **www.tcd.ie/senior_tutor**

Sports centre fees (€90 in 2014/15) may be waived in cases where the student's sole income is through social welfare payments or where there is financial hardship.

Scholarships

ENTRANCE EXHIBITIONS

Entrance Exhibitions are awarded to first year new entrants provided that sufficient merit is shown in public examination results. Each exhibition is in the form of a book prize. The schools in which exhibitioners received their post-primary education are informed.

SIZARSHIPS

Sizars are Entrance Exhibitioners of limited means who have Commons (evening meal) free of charge. Application to be considered for the award of a sizarship should be made to the Admissions Team, Academic Registry on or before 15 October of the year of entry. Application details are available at: **www.tcd.ie/study/eu/undergraduate/apply/form**. Sizarships are normally tenable for the first two years of an undergraduate course.

FOUNDATION SCHOLARSHIPS

Students in their second year may opt to take Foundation Scholarship exams, usually held in January. These searching examinations, on material from the student's own course of study, are the basis for the election to Scholarship of the University. Students who achieve an overall first class honours result in these examinations are elected as Scholars on Trinity Monday.

A scholarship is tenured for 5 years, during which time the Scholar is entitled to free Trinity accommodation, their evening meal free of charge at Commons, a waiver of their tuition fees or student contribution (non-EU students' fees are reduced by the value of EU fees) and a small annual stipend. Scholars are also entitled to use the post-nominal letters "sch." after their name.

Scholarship is a very prestigious award given to approximately 70 students each year. See: **www.tcdlife.ie/scholars** for more information.

SPORTS SCHOLARSHIPS

Trinity offers 30 rugby scholarships and 31 scholarships for other sports per year.

Eligibility

Sport scholars should be competing at the highest national level possible in their chosen sport and have been offered a place in the University. The closing date is generally the first week in October, see: **www.tcd.ie/sport/scholarships** for further details and to download the application form, or contact: lucinda.gavigan@tcd.ie

Benefits include:

- A financial grant
- Nutritional workshops
- Financial assistance
- Sports medicine
- Sports testing
- Sports psychology workshops
- Access to performance coaching
- Strength & conditioning programmes
- Support to liaise with academic tutors

Focus on Sports Scholar – Aoife McDermott (Basketball)

Aoife is one of our 31 Sports Scholars and is a Masters Student in Nursing and a current Irish International player. Aoife has set the university scene alight this year winning the Division 1 League and Intervarsity Double, being selected on the All Star Intervarsity Team, the Irish Colleges Team, and 2015 Women's National League Select Squad. To add to all of that, Aoife is also a Sky Sports Athlete Mentor working with schools throughout the country to encourage young athletes to follow their dream by building confidence and transferable skills.

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 College. A booklet setting out all the awards available in Trinity may be obtained from the Academic Registry, Watts Building, Trinity College Dublin, the University of Dublin, Dublin 2.

Tel: +353 1 896 4500, Email: academic.registry@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. 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 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/study/eu/undergraduate/apply/form**. The deadline for applications is 15 October of the proposed year of entry.

CHORAL SCHOLARSHIPS

Eight choral scholarships valued at €1,300 are available for the year 2016/17.

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); an appointment for an audition before the selection committee is then made.

FUNDING OPTIONS FOR INTERNATIONAL STUDENTS

International students are encouraged to apply for Trinity-wide scholarships, including the Foundation Scholarship (see page 208). Trinity offers a number of scholarship opportunities specifically for international students each year. Details are available at: **www.tcd.ie/study/non-eu/scholarships**

Students are always encouraged to explore external funding options in their home countries, including local and governmental awards. Students from the United States should note that Trinity is an accredited recipient of US federal student loans. Information on FAFSA requirements are available at: **www.tcd.ie/academicregistry/fees-payments**

How to Apply

EU Applicants

Am I an EU or Non-EU applicant?: See page 213.

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: Applications to Medicine, to restricted entry courses, and by mature students must be made by 1 February, see page 223. Applications to Medicine must be submitted online.

Feasibility study in Admissions: see page 215

Applicants from Northern Ireland: see page 216

EU Enquiries

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

Academic Registry, Watts Building, Trinity College Dublin, the University of Dublin, Dublin 2, Ireland. Tel: +353 1 896 4500, Fax: +353 1 872 2853, Email: academic.registry@tcd.ie
Website: **www.tcd.ie/study/eu/undergraduate**

Applicants with a Disability

Students who require particular supports or reasonable accommodations due to a disability should notify Trinity of these requirements in advance of admission to the university. 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 requirements and, where relevant, subject specific requirements, see page 222.

WHO SHOULD APPLY TO DARE?

DARE is for school leavers (under 23 years old as of 1 January 2016) 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 211.

How to Apply to DARE?

1. Apply to CAO by 17:15 on 1st February 2016.
2. No later than 17:15 on 1st March 2016, 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 by selecting "Yes" to Question 5 by 17:15 on 1st March 2016.
3. Return the fully completed Second Level Academic Reference (Section B) and Evidence of Disability (Section C) of the SIF to arrive at the CAO no later than 17:15 on 1st April 2016.

Condition of a DARE Offer

In recognition of national and university 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. 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/study/eu/undergraduate/apply/disability**

Regional DARE application advice clinics will be running in early 2016 and full details and locations of these can be found on: **www.accesscollege.ie**

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/study/eu/undergraduate/apply/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 Team, Academic Registry, Watts Building, Trinity College Dublin, the University of Dublin, 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 those 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

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

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 email at:

Email: dare@tcd.ie
Tel: +353 1 896 1968
Website: **www.tcd.ie/disability** or: **www.accesscollege.ie**

Mature Students

All undergraduate courses in Trinity 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 as a mature applicant you must:

- be an EU applicant (see page 213)
- be at least 23 years of age on 1 January 2016
- submit a CAO application form to the Central Applications Office (CAO) by 1 February 2016
- submit a Trinity Mature Student Supplementary Online Application Form (required for all CAO courses with the exception of nursing and midwifery) by 1 February 2016.

Late applications will not be considered from mature students.

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

The Trinity 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 apply 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 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 April and 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 available from the Academic Registry, Watts Building, Trinity College Dublin, the University of Dublin, Dublin 2, tel: +353 1 896 4500, email: academic.registry@tcd.ie. The Mature Student Guidelines booklet is also available to download at: **www.tcd.ie/maturestudents/apply**

Trinity will inform mature applicants of the outcome of their application before the end of May to allow successful applicants the maximum time possible to prepare for the start of the academic year 2016. 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 Trinity will take place for all successful mature applicants in July 2016. An orientation programme for all successful mature applicants will take place in September 2016.

For further information on studying in Trinity as a mature student please contact the mature student officer, tel: +353 1 896 1386, email: mature.student.officer@tcd.ie or visit: **www.tcd.ie/maturestudents**

Mature student information seminar: see page 214.

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 communities, 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 Trinity.

WHO SHOULD APPLY TO HEAR?

HEAR is for school leavers (under 23 years old as of 1 January 2016). Mature and FETAC students have different admission routes, see pages 211 and 218.

How to Apply to HEAR?

Step 1
Apply online to CAO by 17:15 on **1 February 2016**.

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 2016**.

Step 3
Submit relevant evidence in support of your application to arrive at CAO by 17:15 on **1 April 2016**.

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 Trinity 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 15, 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 2015. You may also apply for the University Access Course which Trinity runs in partnership with Liberties College on this application form. The closing date for receipt of applications is February 7th 2016. 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 tel: +353 1 896 2751.

TAP FOUNDATION COURSE FOR MATURE STUDENTS

This one-year course prepares mature students (EU students who are over 23 years of age on 1 January of the proposed year of entry) for entry to undergraduate studies at Trinity 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 226.

Applicants for the Foundation Course for Mature Students may apply online from mid-November 2015. You may also apply for the University Access Courses which Trinity runs in partnership with Pearse College and Plunket College on this application form. The closing date for receipt of applications is March 28th 2016. 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 tel: +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 2015 may give an indication of the level of achievement required for 2016. Applicants are advised that the competitive entry level may fluctuate (see the 2015 entry levels at: **www.tcd.ie/study/eu/undergraduate/admission-requirements/leaving-cert/minimum-points**)

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 for one year. On receipt of a CAO Offer Notice:

1. Do NOT accept the offer.
2. Write or send an email IMMEDIATELY to the Admissions Officer, Academic Registry, Watts Building, Trinity College Dublin, the University of Dublin, Dublin 2 setting out the reason(s) for the request.
3. The letter/email must arrive in the Academic Registry at least two days before the 'Reply Date' shown on the Offer Notice. Trinity 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 2017 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 Team, Academic Registry, Watts Building, Trinity College Dublin, the University of Dublin, Dublin 2, email: academic.registry@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 (Advanced Entry) should consult: **www.tcd.ie/study/eu/undergraduate/apply/transferring/from-third-level**

Non-EU Applicants

Am I an EU or Non-EU applicant?: See page 213.

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

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

The Admissions Team, Academic Registry, Watts Building, Trinity College, Dublin 2, Ireland.
Tel: +353 1 896 4500, Fax: +353 1 872 2853,
Email: academic.registry@tcd.ie,
www.tcd.ie/study/non-eu/undergraduate

The normal closing date for applications is 1 February 2016. 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 217) 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. Students who wish to accept an offer of a place in the university will be required to return an acceptance deposit 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 Academic Registry, Watts Building, Trinity College Dublin, the University of Dublin, Dublin 2, Ireland in writing prior to the deadline for acceptance of their offer.

All Applicants (EU and Non-EU)

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. 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/study/non-eu/study-abroad/to-trinity

Completed applications must be received by 1 March 2016.

Applying for Accommodation

Applicants may apply for accommodation in Trinity Hall after they have been offered a place on a course at Trinity. See page 10 for further details.

Applicants' Appeals Process

Applications are assessed on the basis of criteria listed in this publication and on the Study at Trinity 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.

Am I an EU or Non-EU Applicant?

An EU applicant is a person:

1 who is ordinarily resident[1] in the EU[2]

AND

- who will have received full-time post primary education

AND/OR

- who has worked full-time[3] in the EU

for three of the five years immediately preceding admission to Trinity

OR

2 who holds a passport from an EU[2] state and has received all full-time post primary education in the EU[2]

OR

3 who has

- official refugee status[4]

OR

- been granted humanitarian leave to remain in the State and who has been ordinarily resident in the EU[2] for three of the five years immediately preceding admission to Trinity

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 EU[2] Member State for three of the five years prior to the student's entry to Trinity.

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 Team may contact some applicants in order to seek supporting documentation regarding their status (EU/non-EU).

6 At the time of going to press the above criteria were under review. Any changes or updates will be published to: **www.tcd.ie/study**

All other applications are considered to be non-EU applications (see page 226 for further information).

Important Dates for Applicants

5 December 2015	Trinity Open Day.
7 January 2016	Mature students advice and information seminar. See page 15.
20 January 2016	Closing date for registration for the HPAT-Ireland test for entry to Medicine.
20 January 2016	Final date for CAO online discounted application fee.
1 February 2016	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 Team, Academic Registry, Trinity College Dublin, the University of Dublin, Dublin 2, Ireland.
27 February 2016	Date of HPAT-Ireland test for entry to Medicine.
1 March 2016	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 completed 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.
1 April 2016	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.
2 April 2016	Provisional date for Music and Music Education entrance examination.
1 May 2016	Late closing date for CAO (Note: Late applications to restricted entry courses, and late applications from mature students will not be considered).
1 July 2016	Closing date for submission of a 'Change of Mind' to CAO.
15 October 2016	Closing date for receipt of applications for the Reid Entrance Exhibition.

See: **www.tcd.ie/calendar** for Term Dates 2016-2017

Feasibility Study in Admissions

This is the third year of the pioneering feasibility study in admissions as Trinity attempts 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 is adopting 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.

Students can opt-in or opt-out of the study, and by opting-in you are eligible for **all** of the places filled in the traditional way, as well the extra places filled through this new route. The new admissions route is being 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 in this way. Applicants to any of the three courses involved in the study will have the option of using the new admissions route, and submitting some short supplementary material (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, but not the extra places. 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 university, 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 March 2016. 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**

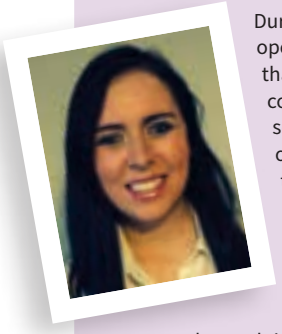
'The launch of a pioneering feasibility study in admissions is something that could be transformative for Ireland – and is one that is vitally important for its future… With this study, Trinity is sending a powerful message that with hard work anything is possible, including admission to Trinity or to any university in the world.' **(Dr. William R. Fitzsimmons, Dean of Admissions and Financial Aid at Harvard).**

Admission of Students from Northern Ireland

Trinity is a university for the whole island of Ireland, and has played a unique role 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**).

One of our student ambassadors from Northern Ireland is Catherine O'Callaghan, a final-year Law and Business student. Catherine has the following message for anyone from Northern Ireland thinking of studying at Trinity:

Student Profile | **Catherine O'Callaghan**
Student Ambassador from Northern Ireland



During my final year at school I came to an open day at Trinity and knew right away that this was where I wanted to study. The community atmosphere is definitely what set Trinity apart for me. The opportunities on offer, both academic and otherwise, are truly incredible. When it comes to extra-curricular activities, there is something for everyone, and I found that joining societies made it easy to meet new people. Between attending the range of on-campus events on offer and being located right in the heart of the city, you are never lost for something to do.

Dublin is also a great location for students from Northern Ireland, as it allows you to be somewhere different than home and yet only a bus journey away from your family. For me it's the perfect balance.

I can't talk about student life at Trinity without mentioning the Trinity Ball – the annual event that is said to be Europe's largest private party. The campus transforms into a music festival for one night, and in recent years has hosted the likes of Ellie Goulding, The Script and Imagine Dragons. It's a pretty amazing perk of studying here!

The connections with Northern Ireland are long and enduring. For example, the Honourable Sir Donnell Deeny, founder of the Ireland Chair of Poetry, judge, and a graduate of Trinity, is the newest Pro-Chancellor of the university. As the Provost, Dr. Patrick Prendergast, noted in his speech to the Trinity Association of Northern Ireland in Belfast on 9 November 2012, our alumni include Isaac Butt and the physicist Thomas Andrews in the nineteenth century, and a range of distinguished people in the twentieth, including the judges, Sir James Andrews and Sir William Moore, both Lord Chief Justices of Northern Ireland; 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 helped treat the childhood cancer Burkitt's lymphoma; and the world-renowned historian R.B. McDowell. Other of our great alumni, such as the Nobel Prize winners, Samuel Beckett, in literature, and Ernest Walton, who helped split the atom, were educated in Northern Ireland. As the Provost noted, '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'.

FEASIBILITY STUDY FOR A-LEVEL ADMISSIONS

Recognising that only 1 in 8 students in Northern Ireland does 4 A-Levels, Trinity has developed a feasibility study for A-Level admissions, which will be tested in the first instance for students applying from Northern Ireland. The results will be shared with the other Irish colleges, to see if it could be used as a possible mechanism to admit all A-Level applicants from within the EU.

Students applying to Trinity from Northern Ireland for entry in 2016/17 will be eligible for all of the places that will be filled in the normal way through the CAO system. However, a set number of places (maximum 3 per course) will be set aside for the purposes of the feasibility study, which will allow students to access any course* with only 3 A-Levels. Students taking 4 A-Levels will not be disadvantaged – their best three subjects will be considered for places offered in the study.

* Medicine is not included due to HPAT requirements.

HOW TO APPLY FOR THE FEASIBILITY STUDY

1. All students applying to Trinity from Northern Ireland should do so through the CAO, the Irish equivalent of UCAS, at **www.cao.ie**
2. Students wishing to apply for entry through the feasibility study must submit an additional application form by 1 May 2016 (see **www.tcd.ie/niep**).

Notes:

1. Students applying for entry through the feasibility study must reside in Northern Ireland and be taking A-Level examinations.
2. All applicants to Trinity must satisfy the University's minimum entry requirements and specific course requirements.
3. For the feasibility study, places will not be allocated to students with less than ABB at A-Level.

Further information about the feasibility study is available at:
www.tcd.ie/niep

Admission Requirements 2016

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

(i) meet the minimum entry requirements (see below).

(ii) satisfy course specific requirements (where applicable), see pages 220-224.

(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/study/eu/undergraduate/admission-requirements**

Also see 'Other Requirements' on page 219.

Note: An Irish language Admission Requirements Summary brochure is available from: **www.tcd.ie/study/eu/undergraduate**

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.

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 notes 3A and 3B on page 223.

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 matriculation examination of the same year for scoring purposes.

The minimum entry levels (points) for recent years are available at: **www.tcd.ie/study/eu/undergraduate/admission-requirements/leaving-cert/minimum-points**

LEAVING CERTIFICATE VOCATIONAL PROGRAMME LINK MODULES

These modules are accepted for scoring purposes only and are awarded the following points: Distinction 70, Merit 50, Pass 30.

FETAC Qualifications

There is an entry route to a number of degree programmes in Trinity 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 and TR093); Mental Health Nursing (TR095); Intellectual Disability Nursing (TR097) and Midwifery (TR913). Further details may be found at: **www.tcd.ie/study/eu/undergraduate/admission-requirements/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 notes 3A and 3B on page 223.
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 Academic Registry, see page 210.
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.

A-Level Scoring System

A new A-Level scoring scheme has been introduced for students applying for entry in 2016, as it is recognised that a large majority of A-Level students sit only three A-Levels. Therefore, points are now weighted in favour of the first three A-Levels, with additional points awarded for a fourth A-Level or for a fourth AS-Level subject.

Grade	First 3 A-Level subjects	4th A-Level or AS	
A*	180	60	
A	150	50	30
B	130	45	25
C	100	35	20
D	65	20	15
E	45	15	10

- **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 from 2016 onwards 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/study/eu/undergraduate/admission-requirements/a-levels/minimum-points**

Notes:

- 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 Short Courses results is available at: **www.tcd.ie/study/eu/undergraduate/admission-requirements/a-levels/minimum-requirements**

Allocation of Places

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

University Matriculation Examination

A matriculation examination, graded in equivalent terms to grades used in higher Leaving Certificate examination papers, is held in Trinity 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 Academic Registry, Watts Building, Trinity College Dublin, the University of Dublin, Dublin 2, Tel: 01 896 4500, Email: academic.registry@tcd.ie

Minimum Entry Requirements: Other EU Countries

Applicants who are presenting a second-level qualification other than Leaving Certificate or Advanced GCE (A-level) should consult the Trinity website (**www.tcd.ie/study/eu/undergraduate/admission-requirements/other-eu**) or contact the Academic Registry (see page 210) for details of the relevant minimum entry and course requirements.

Minimum Entry Requirements: Non-EU Countries

Applicants who are presenting qualifications from non-EU countries should consult the Trinity website (**www.tcd.ie/study/non-eu/undergraduate/country-specific**) or contact the Academic Registry (see page 213) for details of the relevant minimum entry and course requirements.

Other 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: Examination results are only valid for 2 years.

AGE REQUIREMENT

Applicants seeking admission in 2016 must have a date of birth before 15 January 2000.

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 period of 6 months or more will be required to provide police clearance documentation from the country (including different states) or countries in which they resided.

Garda vetting forms will be distributed (as part of the student orientation information) to students who have been offered a place in Trinity. The completed forms must be returned to the Academic Registry 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. Trinity 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 the following courses are made subject to certain vaccination requirements and/or certain negative test results.

- Clinical Speech and Language Studies
- Dental Science, Dental Hygiene, Dental Nursing, and Dental Technology
- Medicine
- Nursing and Midwifery
- Occupational Therapy
- Pharmacy
- Physiotherapy
- Radiation Therapy
- Social Studies (Social work)

Full details are available at: **www.tcd.ie/study/eu/undergraduate/admission-requirements/infectious-diseases**

Course Requirements 2016: Two-Subject Moderatorship (TSM/TR001) – Level 8 (Honours Degrees)

The two-subject moderatorship (TSM) is a joint honour programme. Students select two subjects from the list below (for permitted combinations see next page) and pursue both to honours degree level. Usually both subjects are studied for three years and one subject only is studied in the fourth and final year (see page 28). An honours degree is awarded in both subjects.

The minimum entry points for each TSM combination are shown on page 29.

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 2015	Minimum Points Range 2014**	Page
AH	Ancient History and Archaeology	none	23	365*-555	40
CT	Catholic Theological Studies	none	10	n/a	108
CC	Classical Civilisation	none	29	385*-555	42
CL	Classical Languages	C3 in Greek, Latin or in a language other than English	16	N/a	44
DR	Drama Studies	see note 12	24	400-555	50
EI	Early Irish	C3 in Irish	10	N/a	78
EC	Economics	see note 1	43	480*-570*	56
EN	English Literature	C3 in English	85	520*-570*	58
FS	Film Studies	none	30	360*-525*	62
FR	French	C1 in French	84	400*-570*	64
GG	Geography‡	none	45	430*-570*	66
GE	German	C1 in German	32	435-550*	68
HS	History	none	40	495*-555	70
AR	History of Art and Architecture	none	40	385*-555	76
IT	Italian	C3 in Italian or C3 in a language other than English	30	360*-570*	80
JS	Jewish and Islamic Civilisations	none	10	395-570*	82
MT	Mathematics	B3 in Mathematics	25	545*-570*	170
MI	Modern Irish	C3 in Irish	30	415*-555	78
MU	Music	see note 5	20	415-570*	92
PH	Philosophy	none	43	430*-570*	96
PS	Psychology	none	17	570*	106
RU	Russian	C3 in a language other than English	36	410*-555	112
SC	Sociology	none	59	440*-570*	116
SP	Spanish	C3 in a language other than English	41	450*-555	120
BT	World Religions and Theology	none	24	385*-570*	110

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 EU: **www.tcd.ie/study/eu/undergraduate/admission-requirements/other-eu**

‡ Geography may also be read as part of a moderatorship course in Science – TR071. See page 146 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 2014 is shown on page 29.

Two-Subject Moderatorship (TSM): **CAO Course Codes**

When applying for a TSM/TR001 combination, TR001 must NOT be entered on the application form.

Each permitted 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 224.

	AH	CT	CC	CL	DR	EI	EC	EN	FS	FR	GG	GE	HS	AR	IT	JS	MT	MI	MU	PH	PS	RU	SC	SP	WR
AH	–	–	–	224	–	–	–	106	–	107	–	–	112	113	115	547	–	–	–	–	–	121	–	123	102
CT	–	–	–	–	–	186	–	–	–	–	–	–	187	–	189	–	–	188	–	190	–	–	–	–	–
CC	–	–	–	225	185	–	–	166	–	167	–	–	172	173	175	548	–	174	–	179	–	181	–	183	133
CL	224	–	225	–	226	227	–	228	–	229	–	–	230	231	232	233	–	234	–	235	–	236	–	237	238
DR	–	–	185	226	–	–	–	276	311	306	–	366	–	485	545	–	–	515	635	–	–	725	755	785	–
EI	–	186	–	227	–	–	–	–	–	–	–	–	456	486	–	549	–	–	–	–	–	–	–	–	156
EC	–	–	–	–	–	–	–	–	–	–	198	199	202	–	–	–	207	–	–	209	210	211	212	213	–
EN	106	–	166	228	276	–	–	–	312	257	–	259	262	263	265	550	267	264	268	269	270	271	272	273	136
FS	–	–	–	–	311	–	–	312	–	313	–	314	–	–	316	319	–	315	320	–	–	317	–	318	310
FR	107	–	167	229	306	–	–	257	313	–	–	289	292	293	295	551	297	294	298	299	300	301	302	303	137
GG	–	–	–	–	–	–	198	–	–	–	–	321	322	–	–	–	327	–	–	329	330	–	332	–	–
GE	–	–	–	–	366	–	199	259	314	289	321	–	352	353	355	552	357	354	–	359	–	361	362	363	139
HS	112	187	172	230	–	456	202	262	–	292	322	352	–	443	445	554	–	444	448	449	–	451	452	453	142
AR	113	–	173	231	485	486	–	263	–	293	–	353	443	–	475	555	–	–	478	479	–	–	482	483	143
IT	115	189	175	232	545	–	–	265	316	295	–	355	445	475	–	–	–	505	–	539	540	541	542	543	–
JS	547	–	548	233	–	549	–	550	319	551	–	552	554	555	–	–	–	556	–	558	559	560	561	562	–
MT	–	–	–	–	–	–	207	267	–	297	327	357	–	–	–	–	–	–	598	599	600	–	–	–	–
MI	–	188	174	234	515	–	–	264	315	294	–	354	444	–	505	556	–	–	508	509	–	511	512	513	144
MU	–	–	–	–	635	–	–	268	320	298	–	–	448	478	–	–	598	508	–	629	630	–	–	–	–
PH	–	190	179	235	–	–	209	269	–	299	329	359	449	479	539	558	599	509	629	–	660	661	662	–	149
PS	–	–	–	–	–	–	210	270	–	300	330	–	–	–	540	559	600	–	630	660	–	–	692	–	150
RU	121	–	181	236	725	–	211	271	317	301	–	361	451	–	541	560	–	511	–	661	–	–	–	723	151
SC	–	–	–	–	755	–	212	272	–	302	332	362	452	482	542	561	–	512	–	662	692	–	–	753	152
SP	123	–	183	237	785	–	213	273	318	303	–	363	453	483	543	562	–	513	–	–	–	723	753	–	153
WR	102	–	133	238	–	156	–	136	310	137	–	139	142	143	–	–	–	144	–	149	150	151	152	153	–

AH: Ancient History and Archaeology
AR: History of Art and Architecture
CC: Classical Civilisation
CL: Classical Languages
CT: Catholic Theological Studies
DR: Drama Studies
EC: Economics
EI: Early Irish
EN: English Literature
FR: French
FS: Film Studies
GE: German
GG: Geography
HS: History
IT: Italian
JS: Jewish and Islamic Civilisations
MI: Modern Irish
MT: Mathematics
MU: Music
PH: Philosophy
PS: Psychology
RU: Russian
SC: Sociology
SP: Spanish
WR: World Religions and Theology

Course Requirements 2016: Level 8 (Honours Degrees)

Course Code	Name	Specific Subjects Required (reference is to higher level Leaving Certificate or Advanced GCE (A-level) grades^)	Available Places in 2015	Minimum points in 2014**	Page
TR002	Music	see note 5	15	390	92
TR003	History	none	38	470	70
TR004	Law	none	90	525*	84
TR005	Philosophy	none	20	390	96
TR006	Psychology	none	31	555	106
TR007	Clinical Speech and Language Studies	see note 4	34	525*	46
TR008	World Religions and Theology	none	15	350	110
TR009	Music Education	see note 5	15	445	94
TR012	History and Political Science	none	24	500	74
TR015	Philosophy, Political Science, Economics and Sociology	see note 1	34	540	98
TR016	Deaf Studies	see note 20	20	400	48
TR017	Law and Business	see note 1	25	570*	88
TR018	Law and French	C1 in French	15	560*	86
TR019	Law and German	C1 in German	15	515	86
TR020	Law and Political Science	none	20	555*	90
TR021	Classics	C3 in Greek or Latin or a language other than English	15	435	38
TR022	Early and Modern Irish	C3 in Irish	15	360	78
TR023	English Studies	C3 in English	40	500*	58
TR024	European Studies	see note 8	45	520*	60
TR025	Drama and Theatre Studies	see note 12	17	440	50
TR028	Ancient and Medieval History and Culture	none	15	450	72
TR029	Political Science and Geography	none	15	485	104
TR030	Catholic Theological Studies	none	15	310	108
TR031	Mathematics	B3 in Mathematics	30	540	170
TR032	Engineering	C3 in Mathematics	175	470	134
TR033‡	Computer Science	C3 in Mathematics	100	460*	124
TR034‡	Management Science and Information Systems Studies	C3 in Mathematics	35	515	130
TR035‡	Theoretical Physics	B3 in Mathematics and B3 in Physics	40	550	176
TR038‡	Engineering with Management	C3 in Mathematics	22	460	144
TR039	Computer Science and Language	see note 22	20	450	128
TR051	Medicine	see notes 3A and 3B	123	731*	192
TR052	Dental Science	see note 21	32	575*	184
TR053	Physiotherapy	see notes 1 and 6	40	540*	204
TR054	Occupational Therapy	see note 7	45	500*	200
TR055	Radiation Therapy	see note 14	30	515*	206
TR056	Human Health and Disease	see note 18	35	530*	189
TR071‡	Science	see notes 1 and 2	320	515*	146
TR072	Pharmacy	see notes 1 and 9	75	560*	202
TR073‡	Human Genetics	see notes 1 and 10	15	560	168
TR074‡	Chemistry with Molecular Modelling	see note 11	5	505	164
TR075‡	Medicinal Chemistry	see notes 1 and 2	28	525	172
TR076‡	Nanoscience, Physics and Chemistry of Advanced Materials	see note 13	20	595	174
TR077	Earth Sciences	see notes 1 and 2	19	475	166
TR080	Business Studies	see note 1	25	n/a	30
TR081	Business, Economic and Social Studies	see note 1	236	495	32
TR082	Computer Science and Business	see note 19	30	465*	126
TR083	Sociology and Social Policy	none	28	460	118
TR084	Social Studies (Social work)	none	45	455*	114
TR085	Business Studies and French	C1 in French and see note 1	15	505	36
TR086	Business Studies and German	C1 in German and see note 1	15	485*	36
TR087	Business Studies and Russian	C3 in a language other than English and see note 1	7	440	36
TR089	Business Studies and Polish	C3 in a language other than English and see note 1	5	405	36
TR090	Business Studies and Spanish	C1 in Spanish and see note 1	10	505	36

Course Code	Name	Specific Subjects Required (reference is to higher level Leaving Certificate or Advanced GCE (A-level) grades^)	Available Places in 2015	Minimum points in 2014**	Page
TR091	General Nursing	see note 15	92	415	194
TR092	General Nursing (mature applicants)	see note 17	14	168*	194
TR093	General Nursing – Adelaide School of Nursing	see notes 15 and 16	29	395*	194
TR094	General Nursing (mature applicants) – Adelaide School of Nursing	see notes 16 and 17	4	169	194
TR095	Mental Health Nursing	see note 15	20	390*	194
TR096	Mental Health Nursing (mature applicants)	see note 17	25	151*	194
TR097	Intellectual Disability Nursing	see note 15	17	390*	194
TR098	Intellectual Disability Nursing (mature applicants)	see note 17	13	144*	194
TR911	Integrated Children's and General Nursing	see note 15	15	490	194
TR912	Integrated Children's and General Nursing (mature applicants)	see note 17	5	177	194
TR913	Midwifery	see note 15	25	450*	198
TR914	Midwifery (mature applicants)	see note 17	15	171	198

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/study/eu/undergraduate/admission-requirements/other-eu**

HEA
Higher Education Authority
An tÚdarás um Ard-Oideachas

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.

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 27 February 2016. Applicants must register for the test at: **www.hpat-ireland.acer.edu.au** by 20 January 2016. Further details on the selection criteria are available at: **www.tcd.ie/courses** or from the Academic Registry: +353 1 896 4500. 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 (2014), AS (2015), A-levels (2016).

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 2 April 2016 (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; or a grade C in Mathematics and in one of biology, physics, chemistry at GCSE level.

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. 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, or grade A at GCSE level.

20 A higher level grade C in English and grade D at ordinary or higher level in a language other than English.

21 A higher level grade B and a higher level grade C in two of physics, chemistry, biology, physics/chemistry. Physics/chemistry may not be presented with physics or chemistry. 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.

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 2016: Ordinary Degree and Diploma Courses

Course Code	Name	Specific subjects required	Available Places in 2015	Minimum points in 2014	Page
TR801	Dental Nursing (diploma)	See notes A and C	25	355*	182
TR802	Dental Hygiene (diploma)	See note B and C + Restricted entry	8	415*	180
TR803	Dental Technology (ordinary degree)	See notes A and C + Restricted entry	6	385	186

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.

Non-European Union (Non-EU) Student Admissions

Trinity College Dublin, the University of Dublin is a university of global consequence and our reputation as a world-leading university is reflected in our standing in the world university rankings. We welcome applications from non-EU students wishing to shape their future by joining our global Trinity community. You will discover that an education from Trinity prepares you for a future with unlimited career possibilities.

We accept many overseas qualifications and further details about our entry requirements for international qualifications are available on our Study at Trinity website at **www.tcd.ie/study/non-eu/undergraduate/country-specific**.

If you are unsure whether we will accept your qualifications, or have questions about the levels we require, our Global Relations Office provides a point of personal contact, both in Ireland and globally, to help you through the application process.

Representatives from the Global Office also attend exhibitions, visit schools and universities, and hold receptions and open days for prospective students and offer holders. For more information visit **www.tcd.ie/study/non-eu/events**.

Normally, students from outside the EU must apply directly to Trinity. If you are not sure whether you are considered as an EU applicant or a Non-EU applicant please check online at **www.tcd.ie/study**.

English Language Requirements

English is the language of instruction at Trinity and all applicants are required to demonstrate proficiency in English. Guidelines on English language requirements are available online at **www.tcd.ie/study/eu/undergraduate/admission-requirements/english-language/index.php**.

International Foundation Programme

We also provide an International Foundation Programme pathway as an opportunity for students outside the European Union (EU) who do not meet the direct entry requirements for an undergraduate degree course. Successful completion of the International Foundation Programme guarantees an offer for an associated Trinity undergraduate programme. The International Foundation Programme is the first step on a pathway to a successful career and we ensure students receive the skills and knowledge they will need to thrive in their undergraduate studies. If you are interested in applying to Trinity's International Foundation Programme, please email **international@tcd.ie** for further information.

Alert List for Guidance Professionals – 2016

New Course

TR080 'Bachelor in Business Studies'

This is a new course which allows direct entry to Business Studies from year 1 (previously, Business Studies was only available as an option within the B.E.S.S. programme). Note that Business Studies will also continue to be an option within the B.E.S.S. programme.

Students must present a grade OC3/HD3 in Leaving Certificate Mathematics (or grade B at GCSE level). There are 25 places available.

New TSM Option

'Classical Languages'

The former TSM subjects Greek and Latin have been replaced by the new 'Classical Languages' option. Within this option students will study Greek or Latin. There are 16 places available.

See page 28 for a list of TSM subjects which may be studied in combination with Classical Languages.

Change to Course Specific Entry Requirements

TR021 'Classics'

Students may now study both Greek and Latin from beginner level (previously, students needed to present either Greek or Latin at Leaving Certificate or A-Level).

TR052 'Dental Science'

Leaving Certificate students entering Dental Science from 2016 may not present Agricultural Science as one of the two required science subjects. Students must present two of the following subjects at higher level: physics, chemistry, biology, physics/chemistry.

Course Withdrawn

TR027 'Irish Studies'

New Points Scheme for A-Level Applicants

A new A-Level scoring scheme has been introduced for students applying for entry in 2016, as it is recognised that a large majority of A-Level students sit only three A-Levels. Therefore, points are now weighted in favour of the first three A-Levels, with additional points awarded for a fourth A-Level or for a fourth AS-Level subject.

See page 216 for further details.

Notes

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

OPEN DAY 2015

Saturday 5th December 2015

We look forward to meeting you at our open day!

The exciting and informative programme of events will include:

- Course specific presentations
- Stands for each course, talk to our academic staff and current students to obtain detailed course information
- Demonstrations and laboratory tours
- Presentations about accommodation, student sports, societies and the Students' Union
- Specific sessions for mature students, access students and parents
- Campus tours including the Trinity sports centre

All second-level students, their parents/guardians, mature students, teachers and guidance counsellors are invited to attend.

Full details will be available in November at:
www.tcd.ie/study/eu/undergraduate/events

ONLINE INFORMATION

Study at Trinity: www.tcd.ie/study

Courses: www.tcd.ie/courses

Main Trinity website: www.tcd.ie

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