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The Board of Trinity College is not bound by
errors in or omissions from this publication

TRINITY COLLEGE
THE UNIVERSITY OF DUBLIN

TCD OPEN DAY
WEDNESDAY 12
DECEMBER 2007
9.00AM - 3.00PM

UNDERGRADUATE
COURSES 2008
A Message from the Provost

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

Recognised internationally as Ireland’s leading university, Trinity College Dublin is the only Irish university ranked in the top 100 world universities (78th) and amongst the top 50 European universities (25th), by the 2006 Times Higher Education Supplement (THES) world university rankings.

Founded in 1592, Trinity College is also the oldest university in Ireland and one of the older universities of Western Europe. Today the College has over 15,000 students and presents opportunities to make friends with students from every county in Ireland and from over 90 countries worldwide. Not only is the student body diverse in nationality and culture but also in social experience, representing talented students from a wide range of backgrounds and age-groups.

Trinity has a number of important priorities for its students. Every incoming student is assigned a Tutor, a member of staff, who is there to advise you and help if any personal problem arises. Trinity’s Tutorial System is unique in Ireland.

The College’s curriculum and teaching, with over 400 undergraduate courses on offer, is aimed not just at gaining knowledge but at developing critical thinking, the spirit of enquiry, and contact with research at every stage of the undergraduate programme. You will learn to think for yourself, to learn from your mistakes, and refine your mind to be able to cater for whatever the changing world may throw at you. These skills are for life.

The ‘Trinity Experience’ is a chance in a lifetime for personal development in the widest sense. Trinity has a multitude of diverse and colourful societies and clubs which contribute much to the life and fabric of the university and community. There are some 50 sports clubs and almost 100 student societies to participate in, with something to suit all interests.

Located in the heart of Ireland’s vibrant capital city, close to all major transport links, TCD students can avail of the many attractions and facilities Dublin has to offer. The campus, stretching over 40 acres, has a wonderful mix of historical buildings and state-of-the-art facilities. Two exciting developments on campus are the newly opened Sports Centre, including a 25m swimming pool, and the Science Gallery, a national initiative which celebrates science and technology through interactive exhibitions, events, discussions and debates.

Committed to excellence in both research and teaching, Trinity College Dublin guarantees a distinctive all-round undergraduate experience that will change your life forever. As a student you feel a great sense of history, of walking in the footsteps of famous graduates and of drawing from the past to create the future, as many graduates have done. I hope you will consider joining us to study here and look forward to welcoming you on campus.

John Hegarty
Provost
July 2007
Teachtairieacht ón bPropast

Tá eachtra iontach romhat ag an tríú leibhéal. Tá sé an-tábhachtach an ollscoil cheart a roghnú. Tá súil agam go roghnóidh tú Coláiste na Tríonóide, Baile Átha Cliath.

Bhain Coláiste na Tríonóide ard-leibhéal aitheantaí amach thar na blianta, an ollscoil iompar i Éirinn ag bhonn idirnáisiúnta, an t-aon ollscoil i Éirinn is fearr. Bhuann Tánaiste na tríonóide amach thar na blianta, an ollscoil is fearr san Eoraip (25ú) de réir rangú an Times Higher Education Supplement i 2006.

Bunaíodh Coláiste na Tríonóide sa bhliain 1592 agus tá sé ar an gcéad is ársa in Éirinn agus ar cheann de na hollscóileanna is ársa in iarracht na hEorpa. Tá breis agus 15,000 mac léinn ag freastal ar an gColáiste inniu agus bhíonn deiseanna acu aithne a chur ar mhic léinn as bhreis agus 90 tir ar fud an domhain. Tánaiste na tríonóide sin ó thóirta éagsúla agus tógan siad le a gcultúr agus a dtaithí féin.

Tugann Coláiste na Tríonóide tuilleadh dá chuid mac léinn. Bhíonn Tiúitéir ag gach mac léinn a thagann isteach sa Coláiste, ball foime chun comhairle a chur ort agus cabhrú leat deilteal a dhéacraachtaí pearsanta. Níl a leithéid de córas ar fáil in aon áit eile in Éirinn.

Tá curaclam na bhfochaithe sa Coláiste agus an teagasc a ghabhann leis dírithe a eolas, ar mhachnann chuidíochtaí, ar shaorfhiosrú agus ar thaidhre. Breis agus 400 cúrsa atá ar fáil do na fochaithe. Fochaitheóideach tu conas machnamh as do stuaíomh féin, fochtaimh ó bhotúin, agus fuathar a chur ar d’aigne chun deileáil leis an saol luaineach sean. Is scileann saoil iad sean.

Deis iontach is ea saol an mhic léinn i gColáiste na Tríonóide le forbairt pearsanta iontánach a dhéanamh. Tá mórchuid cumann agus clubanna éagsúla sa Coláiste a chuireann go mór le saol agus pobra ná hollscóile; tá 50 club spórt agus 100 cumann an le páirt a ghluadhach iontu.

Tá Coláiste na Tríonóide suite i gcorráth na hardchathrach, agus gar do na gréasán iompair is mó agus a lán seirbhísí agus áiseanna. Tá 40 acra i gcampas an Coláiste ar a bhfuil forgnimh staíríúla agus saoráidí den deardadh is deanta. Osclaíodh dhá fhóir áthruithe speisialta le deánaí, an Lárionad Spórt le linn snámha 25m, agus an t-Áiléar Eolaíochta, tionscnamh náisiúnta ina bhfuil an eolaiocht agus an teicneolaiocht á gceiliúradh tri thaispeántaí, imeachtaí, plé agus díospóireachtaí idirghníomhacha.

Tá Coláiste na Tríonóide tugtha do bharr feabhais a bhaint amach i dtáighde, agus teagasc agus cuireann sé taithi libheartach ar leith ar fáil a rachadh i bhfheidhm ort go deo. Mar mhac léinn sa Coláiste, braitheadh tú an stáir i do thimpeall agus tuig leanúint long na gcéimeithe cáiliúla a d’imigh romhat agus ag tarraingt ar an ré atá caite chun an todhchaí a churthú. Tá súil agam go roghnóidh tú Coláiste na Tríonóide. Táim ag tnúth go mór le fáilte a chur romhat ar an gcampas.

John Hegarty
Propast
Iúil 2007
Contents

General information

A Message from the Provost
4
Letter from the Dean of Students
5
About Trinity College
6
How to Apply
9
Admission Requirements 2008
18
Learning facilities and services
18
Library
18
IT for Trinity students
18
Optional courses
19
Peer learning in languages
19
Sports, entertainment and dining facilities
19
Sports facilities
19
Trinity theatres
20
Gallery
20
Restaurants and coffee shops
20
Support services for students
20
Personal tutor
20
Careers Advisory Service
20
College Health Service
21
Student Counselling Service
21
Chaplaincy
22
Disability Service
22
Mature students officer
22
Day Nursery
22
Student life at Trinity College
22
Accommodation
23
Sports clubs
23
Student societies
23
Students’ Union
23
Trinity Publications
24
An Ghaeilge
25
Services to applicants and schools
25
Access initiatives
26
Schools liaison
26
Scholarships and awards

Courses

Arts, Humanities and Social Sciences

31 Ancient history and archaeology (TSM)
32 Business, economic and social studies (BESS)
35 Business studies and a language
   (French, German, Russian, Polish or Spanish)
36 Classical civilisation (TSM)
38 Classics
39 Clinical speech and language studies
41 Deaf Studies
42 Drama and theatre studies
42 Drama studies (TSM)
66 Early and modern Irish
66 Early Irish (TSM)
44 Economics (TSM)
45 Education
46 English literature (TSM)
46 English studies
49 European studies
52 Film studies (TSM)
53 French (TSM)
55 Geography (TSM)
56 German (TSM)
57 Germanic languages
58 Greek (TSM)
60 History
60 History (TSM)
62 History and political science
64 History of art and architecture (TSM)
68 Irish Sign Language/English interpreting
69 Irish Studies
70 Italian (TSM)
71 Latin (TSM)
73 Law
75 Law with a language (French or German)
119 Mathematics (TSM)
66 Modern Irish (TSM)
76 Music
76 Music (TSM)
79 Music education
80 Near Eastern and Jewish studies (TSM)
<table>
<thead>
<tr>
<th>81</th>
<th>Philosophy</th>
</tr>
</thead>
<tbody>
<tr>
<td>81</td>
<td>Philosophy (TSM)</td>
</tr>
<tr>
<td>82</td>
<td>Philosophy and political science</td>
</tr>
<tr>
<td>83</td>
<td>Philosophy, political science, economics and sociology</td>
</tr>
<tr>
<td>84</td>
<td>Political science</td>
</tr>
<tr>
<td>85</td>
<td>Psychology</td>
</tr>
<tr>
<td>85</td>
<td>Psychology (TSM)</td>
</tr>
<tr>
<td>88</td>
<td>Religions and theology</td>
</tr>
<tr>
<td>88</td>
<td>Religions and theology (TSM)</td>
</tr>
<tr>
<td>89</td>
<td>Russian (TSM)</td>
</tr>
<tr>
<td>91</td>
<td>Social studies (Social Work)</td>
</tr>
<tr>
<td>92</td>
<td>Sociology (TSM)</td>
</tr>
<tr>
<td>94</td>
<td>Sociology and social policy</td>
</tr>
<tr>
<td>95</td>
<td>Spanish (TSM)</td>
</tr>
</tbody>
</table>

**Direct Entry (non-CAO) courses are available in:**

- Addiction studies
- Irish Sign Language teaching
- Theology

**Engineering, Mathematics and Science**

<table>
<thead>
<tr>
<th>101</th>
<th>Chemistry with molecular modelling</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>Computer science</td>
</tr>
<tr>
<td>104</td>
<td>Computer science, linguistics and a language (French, German, Irish)</td>
</tr>
<tr>
<td>105</td>
<td>Engineering, with specialisations in:</td>
</tr>
<tr>
<td></td>
<td>108 Civil, structural and environmental engineering</td>
</tr>
<tr>
<td></td>
<td>110 Computer engineering</td>
</tr>
<tr>
<td></td>
<td>111 Electronic engineering</td>
</tr>
<tr>
<td></td>
<td>112 Electronic and computer engineering (joint programme)</td>
</tr>
<tr>
<td></td>
<td>113 Mechanical and manufacturing engineering</td>
</tr>
<tr>
<td>115</td>
<td>Engineering with management</td>
</tr>
<tr>
<td>117</td>
<td>Human genetics</td>
</tr>
<tr>
<td>118</td>
<td>Management science and information systems studies (MSISS)</td>
</tr>
<tr>
<td>119</td>
<td>Mathematics</td>
</tr>
<tr>
<td>121</td>
<td>Medicinal chemistry</td>
</tr>
<tr>
<td>122</td>
<td>Physics and chemistry of advanced materials</td>
</tr>
<tr>
<td>123</td>
<td>Science, with specialisations in:</td>
</tr>
<tr>
<td></td>
<td>126 Biochemistry with cell biology</td>
</tr>
<tr>
<td></td>
<td>127 Biochemistry with immunology</td>
</tr>
<tr>
<td></td>
<td>128 Biochemistry with structural biology</td>
</tr>
<tr>
<td></td>
<td>129 Botany</td>
</tr>
<tr>
<td></td>
<td>130 Chemistry</td>
</tr>
<tr>
<td></td>
<td>131 Environmental sciences</td>
</tr>
<tr>
<td></td>
<td>132 Genetics</td>
</tr>
<tr>
<td></td>
<td>133 Geography</td>
</tr>
<tr>
<td>134</td>
<td>Geology</td>
</tr>
<tr>
<td>135</td>
<td>Microbiology</td>
</tr>
<tr>
<td>136</td>
<td>Molecular medicine</td>
</tr>
<tr>
<td>137</td>
<td>Neuroscience</td>
</tr>
<tr>
<td>138</td>
<td>Physics</td>
</tr>
<tr>
<td>138</td>
<td>Physics and astrophysics</td>
</tr>
<tr>
<td>138</td>
<td>Physics and computer simulation</td>
</tr>
<tr>
<td>139</td>
<td>Physiology</td>
</tr>
<tr>
<td>140</td>
<td>Zoology</td>
</tr>
<tr>
<td>141</td>
<td>Theoretical physics</td>
</tr>
</tbody>
</table>

**Direct Entry (non-CAO) courses are available in:**

- Information systems

**Health Sciences**

<table>
<thead>
<tr>
<th>146</th>
<th>Dental hygiene</th>
</tr>
</thead>
<tbody>
<tr>
<td>147</td>
<td>Dental nursing</td>
</tr>
<tr>
<td>149</td>
<td>Dental science</td>
</tr>
<tr>
<td>151</td>
<td>Dental technology</td>
</tr>
<tr>
<td>152</td>
<td>Human nutrition and dietetics</td>
</tr>
<tr>
<td>153</td>
<td>Medicine</td>
</tr>
<tr>
<td>156</td>
<td>Midwifery</td>
</tr>
<tr>
<td>158</td>
<td>Nursing – children's and general integrated</td>
</tr>
<tr>
<td>158</td>
<td>Nursing – general (Adelaide)</td>
</tr>
<tr>
<td>158</td>
<td>Nursing – general (Meath and St James's)</td>
</tr>
<tr>
<td>158</td>
<td>Nursing – intellectual disability</td>
</tr>
<tr>
<td>158</td>
<td>Nursing – psychiatric</td>
</tr>
<tr>
<td>163</td>
<td>Occupational therapy</td>
</tr>
<tr>
<td>164</td>
<td>Pharmacy</td>
</tr>
<tr>
<td>166</td>
<td>Physiotherapy</td>
</tr>
<tr>
<td>168</td>
<td>Radiation therapy</td>
</tr>
</tbody>
</table>

**Direct Entry (non-CAO) courses are available in:**

- Occupational therapy
- Occupational therapy

**Further information**

- Index
- Alert List – 2008
- Term Dates 2008-2009
- Important dates for applicants
- Open Day and Mature student evening
Letter from the Dean of Students

Dear Student

Welcome to this Trinity College prospectus, where you will find information on the many undergraduate courses that Trinity has to offer. You will also learn about some of the non-academic aspects of College life that make studying here so rewarding. There are numerous opportunities for students to participate in sports, societies, volunteering and other activities – there are currently about 50 sports clubs and almost 100 student societies in the College, so there is something to suit almost every interest. One of the most exciting new developments is the state-of-the-art Sports Centre which includes a 25m swimming pool, sauna, steam-room, fitness theatre, five-a-side courts and climbing wall.

In Trinity, we have a wide variety of support services available to help our students. These include a health service, careers advisory service, tutor service, counselling service (including study skills), disability service and chaplaincy. I would particularly like to draw your attention to our tutor system: each undergraduate student is assigned an academic tutor who is available to provide advice and assistance when needed. This can be particularly helpful for new students making the adjustment from school to College.

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

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

Yours faithfully

Gerard Whyte
Dean of Students

Litir ó Dhéan na Mac Léinn

A Mhac Léinn

Fáilte go réamheolaire Choláiste na Tríonóide ina bhfuil eolas ar na cúrsai éagsúla fothchthé le chuireann an Tríonóid ar fáil. Léifidh tú i dtaobh na gcúrsai sin, agus faoi chuid de gnéithe neamhacadúla de shaol an Choláiste chomh maith go féidir leat sa-an tairbhe a bhaint as bheith i mbun staideir anseo dá bharr.. Do na mic léinn tá an-chuid disearann ar fáil sa Tríonóid chun páirt a ghlacadh i gcúrsai spóir, i gcumainn agus in imeachtaí eile a bhaineann le caiteamh aimsire. Tá breis agus 50 club spóirt agus 100 cumann dílisithe do na mic léinn sa Choláiste faoi láthair agus ciallaíonn sin go bhfuil spórt nó cumann in oiriúnú do gach léiriú spéise na mac léinn. Ceann de na forbairtí nua is mó is ábhar sceondair is ea an Halla Spóirt nua atá le hoscailt go luath.

Aithnímid anseo sa Choláiste go mbiónn deachracht ag na mic léinn ó am go chéile, ar nós a n-úil dhuine, agus dá réir sin cuirimid raon seirbhísí tacaíochta ar fáil chun cabhrú leis na mic léinn a gcuí faidhanna a réiteach.

Tá comhairle gairme, séiplíneacht, comhairliú, seirbhísí michumais, sláinte agus seirbhís teagascóra san áireamh. Ba mhaith liom d’uireadh a dhiriú ar ár gcóras teagascóra; ainmniata teagascóir acadúil i leith gach fochéimni agus bionn an teagascóir ar fáil chun comhairle agus cabhair a sholáthar nuair a is féidir leis an tseirbhís seo a bheith ina mór-chabháir go háirithe do mhic léinn úr a ghal air d’oiriúnú dóbh ó shaol na scoile go saol an Choláiste.

Gnóthachtaí eile de thaithiú an mhic léinn sa Choláiste is ea cónaí i gceann de na hionaid chónaithe ar an gcampus nó i Halla na Tríonóide.

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

Dá bhí sin biónn deis ag na mic léinn úra i Halla na Tríonóide aithnte a chur ar mhic léinn eile agus ar an hFhoireann chomh maith le bheith pairteach i saol an Choláiste tri imeachtaí éagsúla sosialta.

Mar chlábhsú, tá súil agam go mbainfidh tú taitneamh as an réamheolaire seo a léiríonn agus go spreagfaidh sé thú chun freastal ar ár n-olscoil. Táim ag trúth le bualadh le cuid mhaithe agaibh mar mhic léinn anseo an bhliain seo chugainn,

Le gach dea-ghuí

Gerard Whyte
Déan na Mac Léinn
About Trinity College

The University of Dublin, founded in 1592, is the oldest university in Ireland and it is ranked as one of the World’s best universities. Some of the most famous people in Irish history have been educated at Trinity; writers like Dean Swift and Samuel Beckett; scientists like Rowan Hamilton the mathematician and E.T.S. Walton, who won the Nobel Prize for his work on the atom. Trinity’s excellent worldwide reputation attracts students from over 90 countries to study at Trinity, as well as a regular stream of guest visitors, both academic (including Nobel Laureates and NASA scientists) and non-academic (e.g. Al Pacino and Oliver Stone).

The importance placed on research has ensured that undergraduate courses are continuously revised and updated. There are also a number of new courses, particularly in the areas of science and business, which reflect the recent changes in the Irish and global societies. Trinity also offers a selection of courses not available at other institutions in Ireland including Russian, Polish, Near Eastern and Jewish studies.

A city centre university

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

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

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

Dublin’s reputation as one of Europe’s leading cities for tourism and entertainment also ensures that students enjoy a wonderful social life while studying at Trinity.
How to Apply

EU applicants
Application for admission (except where otherwise stated) should be made to the Central Applications Office. See p. 177 for application deadlines.

Applications may be submitted online: www.cao.ie

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

Am I an EU applicant?
An EU applicant is a person:
(a) who is ordinarily resident in the EU and who will have received full-time post primary education in the EU for three of the five years immediately preceding admission
OR
(b) who is ordinarily resident in the EU and who will have worked full-time in the EU for three of the five years immediately preceding admission
OR
(c) who holds a passport from an EU state and has received all full-time post primary education in the EU
OR
(d) who has official refugee status or has been granted humanitarian leave to remain in the State

All other applications are considered to be non-EU applications (see p. 7 for further information).

Notes:
2 Where the status of a CAO application is not clear the Admissions Office will contact applicants in March/April to verify that their application is in accordance with the EU definition above. Supporting documentation may be required.
3 A student’s registered status (EU/non-EU) cannot be changed during a programme for which he/she is registered.

EU enquiries
All enquiries from EU applicants concerning undergraduate admission should be addressed to:
The Admissions Office, West Theatre, Trinity College, Dublin 2
Tel: + 353 1 896 1039/2003, Fax: + 353 1 872 2853
Email: admissions@tcd.ie
Website: www.tcd.ie/Admissions

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

There is a supplementary admissions procedure for students with disabilities.

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

To be eligible for inclusion in the supplementary admissions procedure the following criteria must be met:
- A completed CAO Supplementary Information Form is returned to the CAO with the appropriate documentation.
- The specific disability documentation provided is deemed acceptable. In the case of students with specific learning difficulties specific criteria apply: see www.tcd.ie/admissions
- Students satisfy the matriculation requirements of the University; meet, where applicable, any specific course requirements, and are competitive.

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

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

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.

For more information, including guidelines for the completion of CAO supplementary information forms, see www.tcd.ie/admissions

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

In order to apply to Trinity as a mature applicant you must:
- be an EU applicant (see p. 6)
- be at least 23 years of age on 1st January 2008
- submit a CAO application form to the Central Applications Office (CAO) by 1 February 2008
- submit a Trinity College Mature Student Supplementary Application Form (required for all CAO courses with the exception of nursing) to the Admissions Office by 1 February 2008.

Late applications will not be considered from mature students.

Applications may be made online at www.cao.ie or CAO forms may be obtained from and returned to the CAO, Tower House, Eglinton Street, Galway. Tel: +353 91 509 800.

Mature Student Supplementary Application Forms should be obtained from and returned to the Admissions Office, West Theatre, Trinity College, Dublin 2. Tel: +353 1 896 1039. The forms are also available to download at: www.tcd.ie/Admissions

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

Certain courses may also require applicants to meet other assessment criteria:
- applicants to Engineering, MSISS, Engineering with management and Computer Science courses are required to present HC3 in Leaving Certificate mathematics or equivalent
- applicants to Music are required to attend a written test (see course information for further details)
- applicants to English may be required to write an essay
- applicants to Psychology will be required to attend an aptitude test

Note: Applicants to Nursing will be required to sit the Nursing Careers Centre written assessment and attend an NCC interview (see www.nursingcareers.ie).

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

Trinity will inform mature applicants of the outcome of their application before the end of May to allow successful applicants the maximum time possible to prepare for the start of the academic year 2008. 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.

For further information on studying in TCD as a mature student please phone + 353 1 896 1386, email: mature.student.officer@tcd.ie or visit www.tcd.ie/Admissions/admissions_info/mature.html.

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 2007 may give an indication of the level of achievement required for 2008. Applicants are advised that the competitive entry level may fluctuate (see the 2007 entry levels at www.tcd.ie/Admissions).

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

Accepting an offer

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

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

Deferred entry

Students who have received an offer notice may apply to defer their entry to Trinity for one year. On receipt of a CAO Offer Notice:
1. Do NOT accept the offer.
2. Write IMMEDIATELY to the Admissions Officer, West Theatre, Trinity College, Dublin 2 setting out the reason(s) for the request.
3. The part of the Offer Notice relating to the relevant Trinity course must be attached to the letter.
4. The letter must arrive in the Admissions Office at least two days before the “Reply Date” shown on the Offer Notice.
5. In order to take up the deferred place, the applicant must reapply through the CAO by 1 February 2009 and the deferred course must appear as the first and only choice on this application.

A place may be deferred for one academic year only.

Transferring course and Advanced entry

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

Non-EU applicants

Enquiries from non-EU applicants concerning undergraduate admission to courses other than medicine and/or dental science should be addressed to:
Office of International Student Affairs East Theatre, Trinity College, Dublin 2
Tel: + 353 1 896 2683/2011, Fax: + 353 1 677 1698
Email: isa.office@tcd.ie
Non-EU applicants to medicine and/or dental science should download the non-EU application form from www.tcd.ie/Admissions and return it to the Admissions Office, West Theatre, Trinity College, Dublin 2 by 1 February 2008.

The Admissions Office may be contacted by:
Tel: + 353 1 896 1532/1133, Email: admissions@tcd.ie

The closing date for applications is 1 February 2008. 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 matriculation requirements (see p. 9) and, where relevant, meet any specific course requirements (see pp. 12-17).

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

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

Deferred entry
Non-EU students applying for deferred entry should contact the Admissions Officer, West Theatre, Trinity College, Dublin 2 in writing prior to the deadline for acceptance of their offer.

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

Application forms and further information are available from the Office of International Student Affairs (see above for contact details).

Completed applications must be received by 1 March 2008.

Fees information
Students who accept an offer of a place will be contacted by the College Fees Office with regard to payment of fees due. Students eligible for inclusion in the Irish government’s Free Fees Initiative will be liable for the Student Charge (€825 in 2007), the Union of Students in Ireland (USI) membership levy (€8 in 2007) and the Student Sports Centre charge (€70 in 2007) but will not be liable for tuition fees.

Students eligible for a local authority grant will be liable only for the Union of Students in Ireland (USI) membership levy (€8 in 2007) and the Student Sports Centre charge (€70 in 2007).

EU students who are not eligible for inclusion in the Free Fees Initiative pay the EU portion of the fees.

Students who are classified as non-EU students (see p. 6) pay higher fees, termed ‘economic fees’, than those payable by EU students.

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

Full details of the Free Fees Initiative are available at: www.citizensinformation.ie/categories/education/third-level-education/fees-and-supports-for-third-level-education/fees

General fee information can be found in the College Calendar: www.tcd.ie/info/calendar/part1/

For up-to-date information on tuition fees please see: www.tcd.ie/Treasurers_Office/fees1.htm
Admission Requirements 2008

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

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

Matriculation requirements: Irish Leaving Certificate

To be considered for admission to 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 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 Irish at foundation level is not acceptable for matriculation, course requirements or for scoring purposes. Mathematics at foundation level is acceptable (excluding nursing) for matriculation purposes only.
3 Students may combine grades achieved in different sittings of their Leaving Certificate/Matriculation examinations for the purpose of satisfying matriculation and/or course requirements, but not for the purposes of scoring.
4 Combinations of Leaving Certificate subjects not permitted:
   - Physics/Chemistry may not be presented with physics or chemistry
   - Biology may not be presented with botany or zoology
   - Biology and agricultural science may both be used for scoring purposes but biology may not be presented with agricultural science as the two higher level subjects required for Dental Science, Medicine, Medicinal Chemistry, Physiotherapy or Science
   - Art and music may not be offered as two of the three higher Leaving Certificate grades for matriculation purposes but both may be used for scoring purposes

Leaving Certificate scoring system

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<tr>
<th>Grade Level</th>
<th>Higher Level</th>
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<td>90</td>
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<td>B1</td>
<td>85</td>
<td>45</td>
</tr>
<tr>
<td>B2</td>
<td>80</td>
<td>40</td>
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<td>B3</td>
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<tr>
<td>D3</td>
<td>45</td>
<td>5</td>
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</tbody>
</table>

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

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

The minimum entry levels (points) for 2007 are available at: www.tcd.ie/Admissions

Matriculation 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
- 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 matriculation and/or course requirements, but not for the purposes of scoring.
3 Acceptable subjects:
- Applied A-Level, Vocational Advanced Subsidiary, Vocational A-Level, National Vocational and Key Skills qualifications are not accepted for matriculation or scoring purposes.
- GCSE/Advanced GCE (A-Level) subjects set by recognised examination boards are, in principle, acceptable for consideration with the following exceptions:
  - Physical education, General studies and Media and communication studies are not acceptable.
- Applicants who require advice about subject eligibility should contact the Admissions Office.

4 Combinations of A-Level subjects not permitted:
- Art may not be presented with history of art
- Biology may not be presented with botany or zoology
- English literature may not be presented with English language
- Environmental science may not be presented with biology or geography
- Science may not be presented with chemistry, physics or biology
- Not more than one specialised endorsed programme in art may be presented
- Art and music may not be offered as the two Advanced GCE (A-Level) grades for matriculation purposes but both may be used for scoring purposes.

Advanced GCE (A-Level) scoring system

<table>
<thead>
<tr>
<th>Grade</th>
<th>AS</th>
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<td>60</td>
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<td>B</td>
<td>50</td>
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</tr>
<tr>
<td>C</td>
<td>40</td>
<td>105</td>
</tr>
<tr>
<td>D</td>
<td>30</td>
<td>80</td>
</tr>
</tbody>
</table>

An applicant’s score will be calculated on the basis of either of the following:
1. their best 4 GCE Advanced level (A2) subjects from one academic year
2. their best 3 GCE Advanced level (A2) subjects from one academic year plus one Advanced Subsidiary level (AS) in a different subject from the same or the preceding academic year only.

Students may 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.

No additional points are awarded for A* or S level qualifications.

The minimum entry levels (points) for 2007 are available at: www.tcd.ie/Admissions

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

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

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

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

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

The closing date for application for the examination is 1 March. Application forms and a syllabus can be obtained from the Admissions Office, West Theatre, Trinity College, Dublin 2, Tel: +353 1 896 3664/2003.

English language requirement
If English is not your first language you will be required to provide evidence of English language proficiency.
- 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)
- Cambridge Proficiency Grade C
- Cambridge Advanced Grade A
- IELTS (Academic version) 6.5 (no individual band below 6)

See www.tcd.ie/admissions for required grades/scores. Note that examination results are only valid for 2 years.
**Age requirement**
Applicants seeking admission in 2008 must have a date of birth before 15 January 1992.

**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.

Garda vetting forms will be distributed (as part of the student orientation pack) to students who have accepted a place in Trinity. The completed forms must be returned to the Admissions Office prior to registration.
**Course requirements 2008: TR001 Two-subject Moderatorship – Level 8 (HD)**

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

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

<table>
<thead>
<tr>
<th>Subject Name</th>
<th>Specific Subjects Required (reference is to higher level Leaving Certificate or Advanced GCE (A-Level) grades)</th>
<th>Available Places in 2007</th>
<th>Minimum Points Range** 2006</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AH</td>
<td>Ancient history and archaeology</td>
<td>23</td>
<td>345-510*</td>
<td>31</td>
</tr>
<tr>
<td>BT</td>
<td>Religions and theology</td>
<td>24</td>
<td>345-550</td>
<td>88</td>
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<tr>
<td>CC</td>
<td>Classical civilisation</td>
<td>29</td>
<td>350-510*</td>
<td>36</td>
</tr>
<tr>
<td>DR</td>
<td>Drama studies</td>
<td>24</td>
<td>480*-520</td>
<td>42</td>
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<tr>
<td>EI</td>
<td>Early Irish</td>
<td>10</td>
<td>490-500*</td>
<td>66</td>
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<tr>
<td>EC</td>
<td>Economics</td>
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<td>430-550</td>
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<tr>
<td>FS</td>
<td>Film studies</td>
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<td>445*-510*</td>
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<td>FR</td>
<td>French</td>
<td>84</td>
<td>350*-545*</td>
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<td>Geography ‡</td>
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<td>430-545*</td>
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<td>GE</td>
<td>German</td>
<td>32</td>
<td>390-510*</td>
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<td>58</td>
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<td>AR</td>
<td>History of art and architecture</td>
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<tr>
<td>IT</td>
<td>Italian</td>
<td>30</td>
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<td>Spanish</td>
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<td>400-510*</td>
<td>95</td>
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</tbody>
</table>

‡ Geography may also be read as part of a moderatorship course in science – TR071. See page 123 for specific course 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 2006 for all combinations of subjects is available at: [www.tcd.ie/Admissions](http://www.tcd.ie/Admissions)
Two-subject moderatorship (TR001): permitted combinations & CAO course codes

TR001 must NOT be entered on the CAO Application Form.

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

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

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## Course requirements 2008: Honors Bachelor Degrees – Level 8 (HD)

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<td>TR912</td>
<td>Children’s and general integrated nursing (mature applicant)</td>
<td>See note 17</td>
<td>5</td>
<td>164*</td>
<td>158</td>
</tr>
<tr>
<td>TR913</td>
<td>Midwifery</td>
<td>See note 15</td>
<td>20</td>
<td>390</td>
<td>156</td>
</tr>
<tr>
<td>TR914</td>
<td>Midwifery (mature applicant)</td>
<td>See note 17</td>
<td>20</td>
<td>163*</td>
<td>156</td>
</tr>
</tbody>
</table>

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

* Not all applicants at this level were offered places
8 Students entering this programme will study two languages from French, German, Italian, Polish, Russian and Spanish. Italian, Polish, Russian and Spanish are available from beginner level. No student may study more than one language as a beginner. Students accepted onto this programme, subject to the above regulations, will normally have at least a higher level grade C in the Leaving Certificate or equivalent, in two languages other than English and Irish (C1 in the case of French and German and C2 in the case of Spanish if non-beginner). Students who have only one language (other than English or Irish) may also be admitted, subject to the above regulations, if they achieve a higher level grade B in the language in the Leaving Certificate, or equivalent.

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

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

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

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

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

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

17 This is a restricted entry course, therefore, applications must be received by the CAO by 1 February of the proposed year of entry. Mature applicants to Nursing are NOT required to submit a Mature Student Supplementary Application form to Trinity College. If you indicate nursing as a mature student the Nursing Career Centre will invite you to a written assessment. Those applicants who achieve a specific standard at the assessment will be called to interview.
Course requirements 2008: Ordinary Degree and Diploma Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Name</th>
<th>Specific subjects required</th>
<th>Available places in 2007</th>
<th>Minimum points in 2006</th>
<th>Page</th>
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<tbody>
<tr>
<td>TR801</td>
<td>Dental nursing (diploma)</td>
<td>See notes A &amp; C</td>
<td>20</td>
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<td>TR802</td>
<td>Dental hygiene (diploma)</td>
<td>See note B &amp; C + Restricted entry</td>
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<td>TR803</td>
<td>Dental technology (ordinary degree)</td>
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<td>TR804</td>
<td>Deaf studies (diploma)</td>
<td>See note D</td>
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<td>TR805</td>
<td>Irish sign language/English interpreting (diploma)</td>
<td>See note E + Restricted entry</td>
<td>12</td>
<td>-</td>
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</tbody>
</table>

Notes

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

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

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

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

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

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

D Students should hold 6 passes in the Leaving Certificate, including English at grade C on ordinary level or grade D on higher level papers (or grade B at GCSE level). Students should also hold a grade C on ordinary level or grade D on higher level Leaving Certificate papers (or grade B at GCSE level) in a language other than English.

E Students should hold a minimum of 6 passes in the Leaving Certificate including English at higher level grade C or above (or grade C at A-Level) and a pass in a language other than English at Ordinary Level. Students should also have completed at least one year of ISL tuition or have the language as a ‘mother tongue’. Students will also be required to attend an interview.

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

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

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

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

Find out more at www.tcd.ie/Library

IT for Trinity students
Each student is allocated a TCD email account hosted by Google together with storage space on the College server for storing their files. College computers contain standard software to facilitate email, web, and word processing, along with software for other common functions. Some student computer rooms have specialist software to support particular courses or projects. In addition there is a range of assistive technology managed by the Disability Service (see p. 22). Dedicated email/web stations located close to large lecture theatres enable students to check their email and to use the web between lectures. All student accommodation is wired for internet usage.

Trinity has a special scheme with DELL computers offering students a choice of three laptops, all compatible with the College infrastructure. Students may connect their personal computers to the College network and the computers can then be used at a number of locations in the Hamilton, Berkeley and Ussher libraries as well as in student accommodation. Students may also avail of free anti-virus software. Trinity also provides a wireless network through which students can access email and web services on their personal computers.

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

Find out more at isservices.tcd.ie

Optional courses
The University of Dublin is renowned internationally for the breadth and depth of the degrees it awards. Trinity is dedicated to encouraging the following qualities in its students and graduates: inquisitiveness and analytical ability; creativity and reflectiveness; adaptability; breadth of reading; ethical responsibility; international outlook; articulacy; literacy; and numeracy.

To assist with the development of these qualities, Trinity offers students the opportunity to study a course outside their principle discipline, via the Broad Curriculum. Students may also take an optional language course.

Broad Curriculum
Trinity currently offers 13 Broad Curriculum courses in literature, film studies, art and society, philosophy, psychology, politics, development economics, globalisation, the Irish landscape, environmental change, environmental law, business studies, and history. The courses are designed specifically for students who are studying another subject area and are usually available to students in the Senior Freshman (second) or Junior Sophister (third) year.

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

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

Options available are:
French for non-beginners
German for non-beginners
Irish for non-beginners
Spanish for non-beginners
German for beginners
Italian for beginners
Turkish for beginners
For French, Spanish, Irish and German for non-beginners, the minimum entry requirement is a Leaving Certificate (or equivalent) qualification in the relevant language. Further details and an application form will be included in the information pack sent to new students following acceptance of offers.
Find out more at www.tcd.ie/Broad_Curriculum/languagemod

Web based course content
Lecture notes and interactive learning content for certain courses are available on the College website.
E-learning training is offered to students taking these courses.

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

Sports, entertainment and dining facilities

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

The new sports centre has just been completed and includes a 25m swimming pool, sauna and steam room, fitness theatre, ancillary hall, climbing wall, fitness studio, and holistic treatment rooms. The main sports hall is housed on the third floor and hosts racquet and ball games such as basketball, badminton, volleyball and soccer. Also on-campus are squash courts, tennis courts, a futsal pitch, rugby, soccer and cricket pitches and a grass athletics track in the summer.

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

See: www.tcd.ie/sport

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

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

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

Find out more at www.douglashydegallery.com or call +353 1 896 1116.

Restaurants and coffee shops

On-campus, students can choose from three restaurants (The East Dining Hall, The Buttery Restaurant and the Hamilton Restaurant), two ‘Java City’ speciality coffee shops and two other coffee shops. Trinity’s food outlets only serve ‘Fairtrade’ certified tea and coffee.

In addition, Dublin city’s wide selection of restaurants, cafés, delis and coffee shops are within a few minutes walk of College.

Support services for students

Personal tutor

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

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

Find out more at www.tcd.ie/Senior_Tutor

Careers Advisory Service

With the many options available to graduates, making the right choice has become more difficult than ever. The Careers Advisory Service (CAS) offers a range of services and resources to assist students in preparing for, making, and implementing informed decisions about their future careers. We also work closely with the academic faculties in providing students with the necessary skills and knowledge to independently manage their careers after college.

Included in the many services provided by CAS are an extensive Careers Information Centre and an award-winning website. Both contain information on all aspects of the career-planning process, employment search, internships and further study options, as well as details of ongoing career and graduate recruitment events. We also deliver an extensive programme of seminars including ‘CV Preparation’, ‘Application Forms’ and ‘Interview Techniques (with provision for practice interviews on video)’. In addition, students are invited to meet with an experienced Careers Advisor and to avail of our computer-based guidance tools and aptitude testing programme.

At Trinity, all students are encouraged to develop skills through participation in clubs and societies, voluntary and vacation work as well as undergraduate research. Our VACWORK programme offers students the opportunity to secure work experience during the summer before their final year.

Find out more at www.tcd.ie/Careers

College Health Service

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

As well as general practice (including sports medicine) and nurse-run clinics there are specialised clinics in physiotherapy, psychiatry, travel health and sexual health.
To arrange an appointment, either drop into the Reception of the College Health Service, House 47, Trinity College, Dublin 2 or telephone the Reception at +353 1 896 1591/1556.

Find out more at www.tcd.ie/College_Health

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

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

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

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

Eastern Regional Health Authority – see www.erha.ie

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

- Short-term individual counselling for personal issues, including a daily emergency slot
- Individual learning support sessions and self-help literature on many learning difficulties
- Learning Support Workshops on various topics like organisation and study skills, essay and thesis writing, and concentration and procrastination
- A Peer Support Network and extra assistance for Junior Freshman (first year) students
- An after-hours Niteline telephone service run by students for students. Available at Freefone 1800 793 793, Thurs – Sun from 9pm – 2.30am
- The Online Mental Health Portal, where students can receive information and anonymous counselling support
- Training and consultation for tutors and other academic staff to assist students in difficulty

The service is located on the top floor of 199-200 Pearse Street (entrance via campus). Appointments can be made at reception or on +353 1 896 1407.

For more information: www.tcd.ie/student_counselling

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

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

Find out more at www.tcd.ie/Chaplaincy
Disability Service
Trinity is committed to a policy of equal opportunity in education and to ensuring that students with a disability have as complete and equitable access to all facets of college life as can reasonably be provided. This includes students with a physical, sensory or specific learning difficulty, medical or mental health condition that interferes with their ability to achieve academic goals.

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

Find out more at www.tcd.ie/disability or phone Disability Services at +353 1 896 3111

Students with a disability should follow the application process detailed on p. 6.

Mature students officer
Trinity has a long and proud tradition of mature student participation and recognises the unique contribution and commitment that mature students make to College academic and social life.

A full time mature students officer provides guidance and support to both prospective applicants and current mature students.

A resource centre, available exclusively for mature students, provides an excellent space for individual and group study.

For further information on studying in TCD as a mature student please phone + 353 1 896 1386, email: mature.student.officer@tcd.ie or visit www.tcd.ie/Admissions/admissions_info/mature.html

Mature students should follow the application process detailed on p. 6.

Day Nursery
Trinity’s day nursery takes care of children from 3 months to 4½ years of age. There are five different rooms for children of different age groups.

See: www.tcd.ie/info/services/daynursery/ for further details.

Student life at Trinity College

Accommodation
There is accommodation both on campus and at Trinity Hall a short distance away. New entrants are mostly accommodated at Trinity Hall which is in Dartry, near Rathmines – about 2.5 miles from the city centre and 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 College.

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

Ar mhaith leat páirt a ghlacadh I Scéim Chónaithe Dhartraí, scéim I Halla na Tríonóide do lucht na chaéad bhliana?/Would you like to take part in Scéim Chónaithe Dhartraí, an Irish speaking residential scheme for Junior Freshman students in Trinity Hall?

Tuilleadh eolais/For further information, go to: www.tcd.ie/irish/dartrai.htm

Trinity Hall

Cost of rooms in Trinity Hall 2007/2008

<table>
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<tr>
<th>Room Type</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Single en-suite</td>
<td>€4,884</td>
</tr>
<tr>
<td>Twin en-suite</td>
<td>€3,715</td>
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How to apply for Trinity Hall
As soon as you have accepted a place in Trinity you may submit an application for Trinity Hall on-line at www.tcd.ie/accommodation/StudentsandStaff/Students/HowtoApply/
On-campus rooms

Rooms on campus are mostly reserved for students in their final year and Trinity Scholars (see p. 27). There are a number of rooms on the campus suitable for students who have mobility difficulties and who are capable of independent living. Where, due to medical or other particular circumstances, participation in College may be facilitated by the provision of accommodation, applications will receive special consideration. Applications from students with special needs should be addressed to the Registrar of Chambers, Accommodation Office, West Chapel, Trinity College, Dublin 2 as soon as an offer to a Trinity course is received. A supplementary form will then be sent requesting information from a medical practitioner and other relevant professionals.

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

Other options for first year students

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

The Accommodation Advisory Service operates annually from early September to mid-October in cooperation with the Students’ Union. It provides information and contacts for students wishing to secure rented accommodation and offers guidance on what to look for when renting. Phones are provided so that students may make contact with landlords. The Advisory Service may also be able to give some information on digs or lodgings (residing in a room in a house with meals provided) although the College no longer produces full lists of such lodgings.

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

Sports clubs

Trinity has approximately 50 sports clubs ranging from athletics, rugby, hockey and Gaelic games to snow sports, surfing and martial arts. There are many exciting sports to choose from which we encourage you to get involved in at whatever level suits you. Many of our clubs travel around the country and abroad for training and competitions (recently the DUFC (rugby) travelled to the US, the Sailing Club competed and won at the World University Yachting Championships in France and the Boat Club travelled to Spain for a training camp). The enjoyment, friendship and camaraderie of playing with a university sports club is an opportunity not to be missed.

For Sports Scholarships see p. 27.

Find out more at www.tcd.ie/sport

Student societies

There is more to the Trinity experience than just lectures and study. One of the core elements of student life is the activities organised by students for students. Almost 100 Trinity societies covering a broad range of interests, constitute the most dynamic and active set of university student societies in Ireland.

There is something for everyone – from large societies like the Philosophical Society that entertained guests this year including Gabriel Byrne, Joanna Lumley and US Supreme Court Justice Ruth Bader Ginsburg, to smaller societies such as the Filmmakers Society whose members write, film and screen their own works. There are also week long festivals such as the Trinity Arts Festival, Jazz Festival and Eigse na Tríonóide. You can try your hand at everything from debating to dancing, singing to sci-fi, acting to archaeology and politics to photography – you can take over the world with the Gamers Society or make it a better place with the Amnesty Society. And if you don’t find a society that interests you, you can always set one up yourself!

International students find that societies are a great way to meet people and offer a valuable introduction to Trinity life. It is often those people you meet through society activity in college that will remain friends long after you have left.

You won’t miss the Societies in Front Square during Freshers’ week, and you can join up then, but it is also possible to join any society during the year.

Find out more at: www.csc.tcd.ie

Students’ Union

The Students’ Union represents students’ interests in College and provides a range of student services such as two shops, a bookshop, travel agency, café as well as employment and accommodation assistance. The Union also organises a comprehensive entertainment programme including gigs, nights out, mystery tours, comedy nights and the world famous Trinity Ball – the largest private party in Europe.

Five sabbatical officers are elected each year in college-wide elections – the President, the Deputy President, the Education Officer, the Welfare Officer and the Entertainments Officer. The Students’ Union can assist students with academic and non-academic problems and it publishes its own newspaper – the University Record.

Officers are supported by part-time executive officers and elected representatives from each class (who help with student problems and organise class events).

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

Find out more at www.tcdsu.org

Trinity Publications

The award-winning magazines and newspapers that make up Trinity’s vibrant student media are supported by Trinity Publications. These magazines include Miscellany (social and political commentary), Icarus (literary review), Piranhal (satire), Analogue (new student music magazine), The Social and Political Review, The Student Economic Review, The Trinity Student Medical Journal, the Afro-Caribbean Journal, the Metaphysical Journal and The Attic.
Trinity News is the largest student publication in Trinity and is also supported by Trinity publications. It is a broadsheet newspaper that publishes every fortnight and covers everything from news and sport to food and fashion. It is edited each year by a student editor on sabbatical from their studies and has a team of sub editors and contributors who are all full time students. In 2007 Trinity News won awards for “Newspaper of the Year”, “Journalist of the Year” and “Website of the Year” at the Irish Student Media Awards. All students are encouraged to contribute to the newspaper which is an integral part of the College Community. Trinity News also has strong links with the national media and an active group of alumni.

Find out more at www.tcdlife.ie/publications or www.trinitynews.ie

An Ghaeilge
Tá bém nios mó á cu ar úsáid na Gaeilge i saol an Choláiste le blianta beaga anuas agus tá an toradh le feiscint sa chomhathaoich dhatheangach ar fud an Choláiste, san ábhar i nGaeilge a fhóilisitear i bhfoilseachán oifigiúla agus i nuachtáin an Choláiste, agus sa Ghaeilge a labhartar ar an gcampa.

Bionn ranganna Gaeilge ar fáil do mhic léinn agus cuirtear fáilte ar leith roimh na mic léinn úra nach mbionn Gaeilge mar ábhar acu sa Choláiste. Má tá spéis agatsa sna ranganna, beidh deis agat é sin a cheart in uil le linn Sheachtain na Mac Léinn Úr.

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

Sa bhliain 2006-2007 rinneadh forbairt ar raon agus scóip na Scéime agus tá dha Scéime bhreise ar fáil anois; Scéim Chónaithe Dhartraí do mhic léinn na chéad bhliana i Halla na Tríonóide, agus Scéim Chónaithe na Scoláirí ar champaí an Choláiste do scoiláirí a roghnaíonn an Ghaeilge mar theanga cumarsáide laethúil. Leis na forbairtí seo táthar ag cur le pobal Gaeilge an Choláiste, á chothú agus á leathnú.
Services to applicants and schools

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

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

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

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

Applicants are required to satisfy the minimum academic standard of the University (the matriculation requirements – see p. 9) and, where stated, meet any specific course requirements. However, the entry level for admission (e.g. Leaving Certificate points) may be slightly lower than the competitive academic entry level.

Students must apply to the Central Applications Office (CAO) (see p. 6) and also submit a supplementary application form for the Higher Education Access Route (HEAR) to the Trinity Access Programme. HEAR application forms are available from school Guidance Counsellors, TAP Liaison Officers or College Access Offices. Formal offers are made through the CAO following the publication of results.

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

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

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

Application forms are available from www.tcd.ie/Trinity_Access/courses/mature_students.php or from the Trinity Access Programme office. Students are not required to apply to the Central Applications Office.

Find out more at www.tcd.ie/Trinity_Access or phone +353 1 896 2751
General Information

Schools liaison
Trinity offers a range of schools liaison activities. These include school visits, attendance at careers conventions and the annual College Open Day. Members of staff from the Admissions Office and from academic departments participate in liaison activities with schools nationwide.

Open Day
The Trinity Open Day is open to all second level pupils in their final year of school, parents, teachers and guidance counsellors and is held annually in December. For students seeking admission to Trinity in October 2008 the Open Day will be held on Wednesday 12 December 2007. A series of presentations will cover most of Trinity’s courses, while prospective students will have an opportunity to meet with teaching staff and current students for all courses at the individual course stands. See p.178.

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

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

If you would like to arrange a visit to your school please contact the Admissions Liaison Officer by telephone at +353 1 896 3992 or by email to schools.liaison@tcd.ie.

Visiting Trinity
The Trinity College campus is an open campus and visitors are welcome at all times. The Book of Kells is on display in the Old Library and second level students may visit the Book of Kells and library exhibition free of charge. It is advised that groups book in advance – please contact +353 1 896 2320.

There are also limited opportunities for visiting 5th and 6th year school groups to meet with the Admissions Liaison Officer, see above for contact details.

The Admissions Office is open daily from 10.00 – 12.30 and from 2.00 – 4.00, potential applicants are more than welcome to drop in to discuss Trinity’s application procedures.

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

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

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

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

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

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

OR

(b) are graduates of any chartered university

OR

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

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

Foundation scholarship

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

School prizes

Prizes are available to students from the following schools: the Abbey School, Tipperary; Portora Royal School, Enniskillen, Mount Temple Comprehensive, Dublin; St Andrew’s College, Booterstown and Alexandra School, Dublin. A booklet setting out all the awards available in Trinity College may be obtained from the Admissions Office, West Theatre, Trinity College, Dublin 2. Tel: +353 1 896 1039/2003

Sport scholarships

Sports Scholarships are awarded to sportsmen and sportswomen of national/international standard who come to study and compete for Trinity. The Scholarships provide the following benefits;

- Financial grant (between 500 and 2000 euro per year)
- Free use of the University Sports Facilities
- Nutritional Workshops
- Physiological Assessment/Fitness Testing and follow up training

Scholarships are open to all sports and are awarded to first year students and are tenable for one year, however, they may be renewed (on a yearly basis) for up to three additional years. Application forms may be downloaded from the website listed below. The closing date for applications is Friday 10th October 2008 and awardees will be notified by the end of November. For further information, please contact the Department of Sport:
Tel: +353 1 896 3581
Email: sport@tcd.ie
Web: www.tcd.ie/sport

Application forms and further information can be downloaded from: www.tcd.ie/Sport

Choral Scholarships – Trinity College Chapel Choir

Eight Choral Scholarships valued at €1,200 are available for all voices for the year 2008/09.

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. The Choir sings at two regular services during each week of lecture term and various special College and University services. However the Choir is not itself a religious organisation: applicants of any faith, denomination or none are welcome. Those considering applying for a Choral Scholarship should note that some previous choral experience is an advantage and the ability to read music is essential. International students find that membership of the Chapel Choir opens up an element of University life which is often not available to them in their home universities.

Application is made in person at the Chapel Choir desk in Front Square during Freshers’ Week; an appointment for an audition before the selection committee is then made. All candidates are informed of the decision of the committee by the end of the first week of teaching term. There is no pre-application process.
## Arts, Humanities and Social Sciences

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ancient history and archaeology (TSM)</td>
<td>31</td>
</tr>
<tr>
<td>Business, economic and social studies (BESS)</td>
<td>32</td>
</tr>
<tr>
<td>Business studies and a language (French, German, Russian, Polish or Spanish)</td>
<td>35</td>
</tr>
<tr>
<td>Classical civilisation (TSM)</td>
<td>36</td>
</tr>
<tr>
<td>Classics</td>
<td>38</td>
</tr>
<tr>
<td>Clinical speech and language studies</td>
<td>39</td>
</tr>
<tr>
<td>Deaf Studies</td>
<td>41</td>
</tr>
<tr>
<td>Drama and theatre studies</td>
<td>42</td>
</tr>
<tr>
<td>Drama studies (TSM)</td>
<td>42</td>
</tr>
<tr>
<td>Early and modern Irish</td>
<td>66</td>
</tr>
<tr>
<td>Early Irish (TSM)</td>
<td>66</td>
</tr>
<tr>
<td>Economics (TSM)</td>
<td>44</td>
</tr>
<tr>
<td>Education</td>
<td>45</td>
</tr>
<tr>
<td>English literature (TSM)</td>
<td>46</td>
</tr>
<tr>
<td>English studies</td>
<td>46</td>
</tr>
<tr>
<td>European studies</td>
<td>49</td>
</tr>
<tr>
<td>Film studies (TSM)</td>
<td>52</td>
</tr>
<tr>
<td>French (TSM)</td>
<td>53</td>
</tr>
<tr>
<td>Geography (TSM)</td>
<td>55</td>
</tr>
<tr>
<td>German (TSM)</td>
<td>56</td>
</tr>
<tr>
<td>Germanic languages</td>
<td>57</td>
</tr>
<tr>
<td>Greek (TSM)</td>
<td>58</td>
</tr>
<tr>
<td>History</td>
<td>60</td>
</tr>
<tr>
<td>History (TSM)</td>
<td>60</td>
</tr>
<tr>
<td>History and political science</td>
<td>62</td>
</tr>
<tr>
<td>History of art and architecture (TSM)</td>
<td>64</td>
</tr>
<tr>
<td>Irish Sign Language/English interpreting</td>
<td>68</td>
</tr>
<tr>
<td>Irish Studies</td>
<td>69</td>
</tr>
<tr>
<td>Italian (TSM)</td>
<td>70</td>
</tr>
<tr>
<td>Latin (TSM)</td>
<td>71</td>
</tr>
<tr>
<td>Law</td>
<td>73</td>
</tr>
<tr>
<td>Law with a language (French or German)</td>
<td>75</td>
</tr>
<tr>
<td>Mathematics (TSM)</td>
<td>119</td>
</tr>
<tr>
<td>Modern Irish (TSM)</td>
<td>66</td>
</tr>
<tr>
<td>Music</td>
<td>76</td>
</tr>
<tr>
<td>Music (TSM)</td>
<td>76</td>
</tr>
<tr>
<td>Music education</td>
<td>79</td>
</tr>
<tr>
<td>Near Eastern and Jewish studies (TSM)</td>
<td>80</td>
</tr>
<tr>
<td>Philosophy</td>
<td>81</td>
</tr>
<tr>
<td>Philosophy (TSM)</td>
<td>81</td>
</tr>
<tr>
<td>Philosophy and political science</td>
<td>82</td>
</tr>
<tr>
<td>Philosophy, political science, economics and sociology</td>
<td>83</td>
</tr>
<tr>
<td>Political science</td>
<td>84</td>
</tr>
<tr>
<td>Psychology</td>
<td>85</td>
</tr>
<tr>
<td>Psychology (TSM)</td>
<td>85</td>
</tr>
<tr>
<td>Religions and theology</td>
<td>88</td>
</tr>
<tr>
<td>Religions and theology (TSM)</td>
<td>88</td>
</tr>
<tr>
<td>Russian (TSM)</td>
<td>89</td>
</tr>
<tr>
<td>Social studies (Social Work)</td>
<td>91</td>
</tr>
<tr>
<td>Sociology (TSM)</td>
<td>92</td>
</tr>
<tr>
<td>Sociology and social policy</td>
<td>94</td>
</tr>
<tr>
<td>Spanish (TSM)</td>
<td>95</td>
</tr>
</tbody>
</table>

Direct Entry (non-CAO) courses are available in:

- Addiction studies                                       | 96   |
- Irish Sign Language teaching                             | 97   |
- Theology                                                | 98   |
Arts courses at Trinity – an overview

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

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

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

Arts courses are of three kinds:

Single honor courses
In a single honor course one subject is studied almost exclusively for the four years, however most subjects encompass a range of disciplines.

Joint honor two-subject moderatorship (TSM) programmes
You choose two subjects from a list of possible combinations (see p. 30 for possible combinations and p. 13 for CAO codes). In most combinations both subjects are studied equally for the first three years and one subject only is studied in the fourth year. The two subjects are taught as separate disciplines and both are taught to degree level.

Specially designed ‘packages’ of different subjects
These may be organised around a particular theme, as in history and political science, philosophy and political science or European studies, or around the development of a particular skill, as in the moderatorship in computer science, linguistics and a language, music education or law and a language.
**Arts: what comes after graduation?**

A high proportion of vacancies for new graduates are open to students of any discipline and while an arts degree may not lead directly to one profession arts graduates can be found in everything from accountancy to voluntary organisations. The traditional openings for arts graduates have been in the public service, education, and the media. The arts graduate may have problems to face in selecting the right avenue, but there is no shortage of choices. Details of first destinations for graduates of all disciplines are available on the Careers Advisory Service website: [www.tcd.ie/Careers/students](http://www.tcd.ie/Careers/students)

**Two-subject moderatorship (TSM): possible combinations**

The grid below shows the possible combinations of subjects for TSM. Students select two subjects and pursue both to degree level. Usually both subjects are studied for three years and one subject only is studied in the fourth and final year (there are some exceptions, see below). An honors degree is awarded in both subjects.

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

1. When mathematics is studied with other subjects according to pattern B it can be studied for three years only; the other subject must be continued in the fourth year.
2. Greek and Latin can be studied together only in the context of the single honor course in Classics (TR021).
3. May be studied under pattern A or B combination.
   - A = both subjects are studied for four years
   - B = both subjects are studied for only three years and only one subject in the fourth year.

**Two-subject moderatorship (TSM): minimum entry points**

The minimum entry points for TSM depend on which two subjects are chosen. See the Entry Points on [www.tcd.ie/admissions](http://www.tcd.ie/admissions) for a full listing of points per combination.
Ancient history and Archaeology

COURSE CODE: TR001 (TSM)
PLACES 2007: 23
POINTS 2006: 345-510*
DEGREE AWARDED: B.A.
TSM points: See note on p. 12

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

It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. Both subjects are normally studied for three years and one subject only is studied in the fourth year.

An honors degree is awarded in both subjects.

For subjects that combine with ancient history and archaeology see p. 30.

Course overview

Ancient history and archaeology offers you the opportunity to study the historical developments and the cultural and artistic achievements of the Greeks and Romans. It also explores their relations with neighbouring cultures, such as Egypt and the Near East, in the Mediterranean and beyond. All material is studied in translation and no knowledge of Greek or Latin is required. There are opportunities to participate in archaeological fieldwork and in study tours to classical sites. Trinity is the only University in Ireland to offer a course in ancient history and archaeology.

Is this the right course for you?

If you have a particular interest in the history, art history and archaeology of the Greek and Roman worlds you will enjoy this subject.

Course content

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

The Junior Freshman year

In the Junior Freshman (first) year you will take three courses, two core courses in history and in art and architecture, and a course on sources and evidence in history and archaeology – a course specially designed to develop the practical, analytical and critical skills required to assess ancient evidence. There are approximately six hours of classes in the Junior Freshman year.

- **Greek and Roman history** – an introductory survey of the Greek and Roman world from the Greek Archaic age to the early Roman empire. The course covers topics such as politics and power, the Athenian invention of democracy, the rise of Alexander, the emergence of Rome as a major imperial power, colonisation, war and conflict, and various social issues.
- **Greek and Roman art and architecture** – an introductory survey of the development and major artistic achievements in architecture, sculpture and painting. The course places art and architecture in its social and political context; it focuses on themes such as the use of narrative and mythology in art, urbanisation, and on the development of architectural forms such as temples, theatres and Roman baths.
- **Sources and evidence in history and archaeology** – an introduction to the materials, methodologies and theories employed by historians and archaeologists.

The second and third years

Courses in the second and third years offer the opportunity to focus on specific themes and periods in the history and archaeology of the Mediterranean, and you will develop a deeper awareness of methods and theory. Over the two years you will study topics in: Greek archaeology and history, Aegean Bronze Age archaeology, Roman archaeology and history, and Roman Britain. All the courses are taught through a mixture of lectures and small-group discussion sessions (seminars); these give you the opportunity to discuss key themes of relevance to both the ancient and modern world and to work with artefacts.

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

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

The Senior Sophister year

If you decide to study ancient history and archaeology in the final year you will be able to choose two special subjects from a range on offer. Courses offered recently include Greek popular morality; Ethnicity in the Greek and Roman world; the city of Rome; Jews in Egypt; Ancient Cyprus; Entertainment and spectacle in the Greek and Roman world; Goddesses of the ancient Mediterranean; Egyptian religion; Anthropology and the Greeks.
You will also research and write a thesis on a topic of your choice. This gives you a chance to investigate thoroughly an area that particularly interests you and to develop independent research skills.

**Assessment**

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

**Study abroad**

Trinity has strong international links with many Classics departments abroad, including active participation in the SOCRATES exchange programme with universities in France, Switzerland and Cyprus. This allows students the option of spending their Senior Freshman (second) year abroad.

**Careers**

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

**Further information**

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

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### Business, economic and social studies (BESS) common entry degree

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>TR081</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLACES 2007:</td>
<td>216</td>
</tr>
<tr>
<td>POINTS 2006:</td>
<td>475*</td>
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<td>DEGREE AWARDED:</td>
<td>B.A.</td>
</tr>
<tr>
<td>or</td>
<td>Bachelor in Business Studies (B.B.S.)</td>
</tr>
</tbody>
</table>

**SPECIAL ENTRY REQUIREMENTS:**

- GCSE: Grade B Mathematics

**See also:**

- TR001: TSM, p. 29
- TR085, TR086, TR087, TR089, TR090: Business Studies and a Language, p. 35
- TR083: Sociology and Social Policy, p. 94
- TR015: Philosophy, political science, economics and sociology, p. 83
- TR034: Management science & information systems studies (MSISS), p. 118

**Political science:** p. 84

**Course overview**

The structure of the BESS course provides students with a broadly based education in Business, Economics, Political Science and Sociology combined with the opportunity to specialise to a high level in a chosen subject or area.

TR081 leads to one of the following degrees:

- **Bachelor in Business Studies (B.B.S.)**
- **B.A. (Moderatorship)**

  The B.A. Moderatorship can be taken as single or joint honors in:

  - Economics OR Economics and Business OR Economics and Political Science
  - Political Science OR Political Science and Business OR Political Science and Economics OR Political Science and Sociology
  - Sociology OR Sociology and Business OR Sociology and Political Science

Students wishing to study economics and sociology can do so within the two-subject moderator programme (TR212).
Is this the right course for you?
One major advantage of the BESS programme is that it offers flexibility and choice. Because there is a common first year, an incoming student has exposure to a broad range of subjects. BESS gives you the freedom to discover and develop interests that you may not be aware you have until you enter university. It is at the beginning of your second year that you make choices between subjects.

Course content
The Freshman years
All students follow a common first year that comprises foundation courses in economics, management, political science, sociology, mathematics/statistics and either law or a language. This year is an introduction to subjects that you may not have taken at school and gives you an opportunity to explore without committing to particular subjects.

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

The Senior Freshman (second) year allows you to broaden your knowledge of the subjects studied in first year and enables you to focus on one or two particular subjects. The range of subjects on offer is drawn from business studies, economics, political science, and sociology, as well as from complementary disciplines. Students may take Broad Curriculum courses in the Senior Freshman (second) year in order to broaden their horizons.

Find out more at www.tcd.ie/Broad_Curriculum or see p. 18.

At the end of the Senior Freshman (second) year you will decide which of the eleven degree courses to follow.

The Sophister years
Courses in the Sophister years (three and four) aim to deepen your knowledge and understanding of the particular subject(s) you have chosen to follow to degree level in either business, economics, sociology, political science or combinations of these subjects. In addition, you will usually have the opportunity to take an optional course in social policy and law in the Junior Sophister (third) year. In the final year students may be required to prepare a dissertation or case study.

Assessment
Most BESS courses involve a system of continuous assessment with end of term tests, essays, projects and papers contributing up to 50% of the overall grade for the year. The remainder is based on the results of written examinations.

Languages and study abroad
Many students in BESS have the opportunity to study abroad in their third year. First and second year BESS students have the option to study French, German, Spanish, Russian or Polish, see p. 18.

Students who have the prerequisite language proficiency may apply to participate in a SOCRATES exchange programme. This will mean spending all or part of the Junior Sophister (third) year abroad at a university in Austria, Belgium, France, Germany, Italy, Russia or Spain.

BESS also offers English-speaking international exchange programmes to prestigious universities in Europe, North America, Australia and in several Asian countries including Japan, China, Taiwan and South Korea.

There are a limited number of places available on two degree programmes involving an extended period of study at either the École Européenne des Affaires de Paris (EAP) or the École des Hautes Etudes Commerciales (HEC). These lead to the double award of the degree of B.A. or the Bachelor of Business Studies from the University of Dublin and a postgraduate qualification from the partner institutions.

Career opportunities
BESS is your roadmap to a wide and varying career. About 25% of our graduates proceed to further study in masters and doctoral programmes both in Ireland and abroad. The remaining 75% enter a diverse range of employment in areas such as:


The BESS multidisciplinary programme will help you build valuable career skills such as the ability to communicate effectively, work in and lead teams, conduct research and analyse complex problems, that will stand you in good stead in whatever career path you choose.

Further information
www.shs.tcd.ie/BESS
Tel: + 353 1 896 1840
Email: beSS@tcd.ie
### BESS at a glance

<table>
<thead>
<tr>
<th>Junior Freshman (first year)</th>
<th>Senior Freshman (second year)</th>
<th>Sophister years (third and fourth years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students take 6 courses:</td>
<td>Students select from:</td>
<td>Degree options</td>
</tr>
<tr>
<td>Economics</td>
<td>Accounting and Financial Management</td>
<td>Single honor degree in one of:</td>
</tr>
<tr>
<td>Sociology</td>
<td>Marketing and Operations Management</td>
<td>Business studies</td>
</tr>
<tr>
<td>Organisation and management</td>
<td>Intermediate economics</td>
<td>Economics</td>
</tr>
<tr>
<td>Political science</td>
<td>Economy of Ireland</td>
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</tr>
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<td>Mathematics and Statistics</td>
<td>Economics of public policy</td>
<td>Sociology</td>
</tr>
<tr>
<td>Law OR French OR German OR Spanish OR Russian OR Polish</td>
<td>Mathematical and statistical methods</td>
<td>OR</td>
</tr>
<tr>
<td>History of political thought</td>
<td>Russian and East European Politics</td>
<td>Business studies</td>
</tr>
<tr>
<td>West European politics</td>
<td>Economics **</td>
<td></td>
</tr>
<tr>
<td>Introduction to social research</td>
<td>Political science</td>
<td></td>
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<td>European societies</td>
<td>Sociology **</td>
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<td>The sociological imagination</td>
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<td>Central problems in philosophy</td>
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<td>Logic and methodology of science</td>
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<td>Introduction to social policy</td>
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<td>Social Policy and Ageing</td>
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<td>Economy, Environment and Space</td>
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<tr>
<td>French OR German OR Spanish OR Russian OR Polish *</td>
<td>Students may take Broad Curriculum courses in the Senior Freshman (second) year.</td>
<td>**Economics and sociology may be combined only within the two-subject moderatorship programme (TR212). For other subjects that combine with economics and with sociology see p. 30.</td>
</tr>
</tbody>
</table>

*Students may take the language course only if they have satisfactorily completed the equivalent course at Junior Freshman level.**

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**Did you know**

- All of the departments that contribute to the BESS programme have excellent international reputations and Trinity is the only Irish University in the top 100 in Business and the Social Sciences.
- Trinity academics play a leading role in advising governments, banks, major corporations, and political parties. Many have published their research in leading academic and business journals.
Business studies and a language (French, German, Russian, Polish or Spanish)

COURSE CODES:
TR085: French (15 places, points 2006: 495)
TR086: German (15 places, points 2006: 425)
TR087: Russian (7 places, points 2006: 435)
†TR089: Polish (5 places, points 2006: n/a)
†TR090: Spanish (10 places, points 2006: n/a)

DEGREE AWARDED: B.B.S. (Lang.)

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate
OC3/HD3 Mathematics (TR085, TR086, TR087, TR089 & TR090)
HC1 French (TR085)
HC1 German (TR086)
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)

Course overview
The programme offers a very exciting way to experience the satisfaction of getting to grips in an in-depth and comprehensive manner with another country’s language, its society, culture and business environment.

Is this the right course for you?
As a student on this programme you will be required to demonstrate a high level of motivation and commitment to all aspects of language learning. Learning a language from beginner’s level requires considerable effort on your part, particularly in the Freshman (first two) years. Special provisions can be made for students with prior knowledge of Russian or Polish (heritage speakers, near-native speakers or those who have an entrance qualification in Russian or Polish).

Course content
This programme aims to provide you with the knowledge and skills necessary to communicate internationally and to understand the social, political and cultural contexts of markets, organisations and management across countries. In addition to studying courses in business, economic and social studies, you will study the society, institutions, culture and civilisation associated with your chosen language.

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

The Freshman years
There are approximately 18-21 hours of lectures and tutorials per week depending on which subject options are chosen. This should be matched by a similar level of personal study.

Courses in the first and second years include:

- Business Studies
  - Management and Organisation
  - Marketing
  - Economics
  - Mathematics and Statistics
  - Accountancy and financial analysis
  - Organisational behaviour
  - Law

There is also the option to attend courses such as an Introduction to Social Research and the Economy of Ireland in second year.

- Language
  - Practical language
  - Contemporary society
  - Institutions
  - History and culture
  - The overall business environment

The Sophister years
The Junior Sophister (third) year, including a short work placement at the end, is spent at a university in the country of the language in which you are specialising. Trinity has exchange agreements with a range of leading universities and business schools throughout Europe.

In the Senior Sophister (fourth) year you will research and write a dissertation in your selected language concerning issues in management, industry or organisation relevant to that country. Regular course work will continue throughout this year.

Assessment
Written, oral and aural examinations are combined with continuous assessment and a final year dissertation to make up the evaluation process.
Arts, Humanities and Social Sciences

Career opportunities
On graduation you will have high-level competency in the language together with a strong academic knowledge of international business and management. Recent graduates are employed by companies such as Goldman Sachs, AIB Capital Markets and the National Bank of Iceland as well as embassies and public sector bodies. Many are working in financial, analyst or marketing roles.

Further information
www.tcd.ie/Business_Studies/undergrad, Email: bussec@tcd.ie, Phone: + 353 1 896 2707

Business Studies and French:
Dr. Paule Salerno-O’Shea: psalerno@tcd.ie, tel. + 353 1 896 1472
or Dr. Claire Laudet: claudet@tcd.ie, tel + 353 1 896 2313

Business Studies and German:
Dr. Gillian Martin: gsmartin@tcd.ie, tel. + 353 1 896 2329

Business Studies and Russian/Polish:
Dr. John D. Murray: murrayjd@tcd.ie, tel. + 353 1 896 1669

Business Studies and Spanish:
Dr. Susana Bayó Belenguer: bayobels@tcd.ie, tel. + 353 1 896 3496

Classical civilisation

COURSE CODE: TR001 (TSM)
PLACES 2007: 29
POINTS 2006: 350-510*
DEGREE AWARDED: B.A.
TSM points: See note on p. 12

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

For subjects that combine with classical civilisation see p. 30.

Course overview
Classical civilisation offers the opportunity to study the literature, mythology and thought of the Greeks and Romans, and to engage with the cultural and artistic achievements of the classical world. All texts are studied in translation and no knowledge of Greek or Latin is required.

Is this the right course for you?
If you would like to learn about the classical world through the study of its literature, its epic poetry, tragedy and comedy, mythology, philosophy and history writing, then this is the course for you.

Course content
Over four years you will develop a broad understanding of the classical world, primarily through its literature. You will move from introductory courses in the first year, to more focused courses on specific authors, genres and themes in the second and third years, and then choose from a range of specialised options in your final year. The course is taught through a mixture of lectures and small-group seminars, which encourage lively discussion, analytic skills and the development of independent thinking.

The Junior Freshman year
In the Junior Freshman (first) year you will take three courses: two core courses in history and in art and architecture, and a course on mythology and religion, which includes seminars designed to develop analytical and critical skills relevant to the study of literature. There are approximately six hours of classes in the Junior Freshman year.

- Greek and Roman history – an introductory survey of the Greek and Roman world from the Greek Archaic age to the early Roman empire. The course covers topics such as politics and power, the Athenian invention of democracy, the rise of Alexander, the emergence of Rome as a major imperial power, colonisation, war and conflict, and various social issues.
■ **Greek and Roman art and architecture** – an introduction to the development and major artistic achievements in architecture, sculpture and painting. The course places art and architecture in its social and political context; focuses on themes such as the use of narrative and mythology in art, urbanisation, and the development of architectural forms such as temples, theatres and Roman baths.

■ **Mythology and religion** – an introduction to the major myths and religions of the classical world using both literary and artistic evidence. The course also explores theories of myth and the functions of myth within society.

**The second and third years**

In each of these two years you will take four or five course which focus on specific authors (e.g. Homer, Virgil, Herodotus), genres (tragedy and comedy, philosophical writings) or themes (such as gender and sexuality, Ciceronian Rome, the early Roman empire). In these courses you will analyse ancient texts both as literature and as gateways into culture and thought. 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 power, gender and sexuality, life and death.

**The Senior Sophister year**

If you decide to study classical civilisation in the final year you will be able to choose two special subjects from a range on offer. Courses offered recently include Greek popular morality; Ethnicity in the Greek and Roman world; the city of Rome; Jews in Egypt; Ancient Cyprus; Entertainment and spectacle in the Greek and Roman world; Goddesses of the ancient Mediterranean; Egyptian religion; Anthropology and the Greeks.

You will also research and write a thesis on a topic of your choice. This gives you a chance to investigate thoroughly an area that particularly interests you and to develop independent research skills.

**Assessment**

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

**Study abroad**

Trinity has strong international links with many Classics departments abroad, including active participation in the SOCRATES exchange programme with universities in France, Switzerland and Cyprus. This allows students the option of spending their Senior Freshman (second) 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.

**Further information**

[www.tcd.ie/Classics](http://www.tcd.ie/Classics)
Tel: + 353 1 896 1208
Classics

COURSE CODE: TR021
PLACES 2007: 15
POINTS 2006: 435
DEGREE AWARDED: B.A.

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate
Advanced GCE (A-Level)

See also:
(TSM subjects):
Ancient history and archaeology, p. 31
Classical civilisation, p. 36
Greek, p. 58
Latin, p. 71

Course overview
Classics is the study of the literature, thought and history of the Greek and Roman world through reading ancient texts in the original Greek and Latin. If you have already studied either Greek or Latin at school you can learn the other language as a beginner. Classics has been taught in Trinity since its foundation just over 400 years ago, and Trinity is unique in having Chairs in both Greek and Latin.

Is this the right course for you?
If you are interested in studying, in the original language, the literature and thought of these two civilisations that shaped the western world, you will enjoy this course.

Course content
Over the four years you will read a wide variety of texts, including epic, tragedy, comedy, philosophy and history writing. Whether you are continuing your language studies or taking up one of the languages as a beginner, Classics is about studying ancient texts both as literature and as a gateway into culture and thought. For all of your language-based courses the groups will be small, stimulating lively discussion, analytic skills, and the development of independent thinking.

The Junior Freshman year
In the Junior Freshman (first) year the courses you take will depend on whether you have studied both Greek and Latin before or are taking one of the languages as a beginner. There are approximately twelve to fourteen hours of classes in the Junior Freshman year.

- Introduction to Greek and Roman history – a survey of the Greek and Roman world from the Greek Archaic age to the early Roman empire. The course covers topics such as politics and power, the Athenian invention of democracy, the rise of Alexander, the emergence of Rome as a major imperial power, colonisation, war and conflict, and various social issues (all Classics students).

Greek for non-beginners
- Greek authors – you will read the oldest and most influential works of western literature, Homer’s Iliad and Odyssey and the most engaging work of history ever written, the Histories of Herodotus.
- Greek language – in this course you will practice your language skills, and receive a taste of texts not covered in the authors’ course.

Latin for non-beginners
- Latin texts you will read a selection of works by some of the great writers of the late republican and early imperial period: the poetry of Catullus and Virgil, and one of Cicero’s famous legal speeches.
- Latin language – in this course you will practice your language skills, and receive a taste of texts not covered in the authors’ course.

Greek or Latin for beginners
- Elementary Greek or Latin – an intensive introduction to the language. By the end of the year you will be ready to read original texts and your command of the language will be at the same level as those who have studied Greek or Latin before entering university.
- Mythology and religion – an introduction to the major myths and religions of the classical world using both literary and artistic evidence. The course also explores theories of myth and the functions of myth within society. (Beginner’s language students only).

The second and third years
In the Senior Freshman (second) and Junior Sophister (third) years you will progress to an in depth study of major works of Greek and Roman literature. Greek texts may include Sophocles and Euripides, Aristophanes, Plato, Thucydides, and on the Latin side Horace, Propertius and Ovid, the historical prose of Livy and Tacitus, the philosophical writings of Seneca, and the novels of Petronius and Apuleius. Apart from analysis of the chosen texts in their literary and cultural context, the courses introduce you to critical approaches, from textual criticism to literary theory. Separate language classes provide additional assistance in improving your fluency and accuracy in reading and interpretation. You will also continue to study Greek and Roman history through a mixture of lectures and small-group seminars.

The Senior Sophister year
In the Senior Sophister (fourth) year you will take four special subjects and write a thesis on a subject of your choice. This gives you a chance to investigate thoroughly an area that particularly interests you and to develop independent research skills. Recent final year courses have included Roman satire, Desire and the body, didactic poetry, and Alexandria and Rome, Greek political philosophy, Polybius and the Hellenistic empire, the tragedies of the House of Atreus and Plutarch and the biographical tradition.
Assessment
A combination of end of year examination and continuous assessment (e.g. essays, unseen translations and other language tests, textual commentaries, seminar presentations), and a thesis in the final year.

Study abroad
Trinity has strong international links with many Classics departments abroad, including active participation in the SOCRATES exchange programme with universities in France, Switzerland and Cyprus. This allows students the option of spending their Senior Freshman (second) 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. Recent graduates have also taken up careers in journalism, public relations, translation and teaching, and with employers such as the Sunday Independent, the European Commission and merchant banks.

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

Clinical speech and language studies

| COURSE CODE: | TR007 |
| PLACES 2007: | 34 |
| POINTS 2006: | 530* |
| DEGREE AWARDED: | B.Sc. (Clin. Lang.) |

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate
In addition:
HC3 In one of English, French, German, Irish, Italian, Russian or Spanish
HC3 In one of mathematics, applied mathematics, physics, chemistry, biology, physics/chemistry or agricultural science

GCSE
Grade C Mathematics
In addition:
Either
GCSE
Grade B In one of physics, chemistry, biology, mathematics
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

Students must produce a negative Hepatitis B s Antigen (HBsAG) and Anti HB Core Antigen (Anti-HBc) test result before being permitted to register for this course. In the case of a positive result from the above, a Hepatitis B e-antigen (HBeAG) test with a negative result will be required before registration. See p. 145 for further details.

GARDA VETTING:
Students will be required to undergo Garda vetting. See p. 11 for further details.

What is speech and language therapy?
Speech and language therapists work with people who have communication disorders, helping them to find ways to maximise their speech, language and communication skills. They also assess, diagnose and treat swallowing disorders. Speech and language therapists may be part of a multidisciplinary team comprising, for example, doctor, physiotherapist, psychologist, nurse and social worker among others; they may work in community settings.
such as schools and day care centres or may be situated within specialist clinics.

Communication impairments can occur at any stage in a person’s life and they happen for a variety of reasons – due to developmental or congenital conditions in childhood, for instance, or due to an accident or neurological condition in adulthood. Speech and language therapists commonly work with people who have communication disorders associated with physical impairments, for example cerebral palsy; people who have learning difficulties (e.g. associated with Down Syndrome) or mental health disorders; with people who stutter; or those who have communication difficulties following a stroke.

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

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

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

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

Theoretical component
Major subject areas include anatomy, physiology, audiology, linguistics, neurology, psychology, discourse analysis and speech and language pathology, with a mix of teaching methods including case-based problem-based learning (PBL).

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

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

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

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

PBL
Problem-based or problem-centred learning provides students with structured problems set to meet specified learning objectives. Students engage in independent learning and/or group learning (under supervision) to research how to achieve the learning objectives. Information gathered is shared and presented to the class. Tutor feedback is provided at every stage of the learning process.

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

- Physiology – the study of the functions of living organisms
- Linguistics – introduction to language study, syntax and CHILDES
- Phonetics – the study of vocal sounds
- Speech and hearing
- Psychology
- General and neuro-anatomy

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

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

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

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

**Assessment**

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

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

**The Trinity degree and professional practice**

On graduation, your qualification from the University of Dublin is recognised as a licence to practice as a Speech and Language Therapist in Ireland. Those holding the degree are eligible to apply for membership of the Irish Association of Speech and Language Therapists (IASLT) [www.iaslt.com](http://www.iaslt.com). Graduates who wish to work in the UK should contact the Health Professionals Council, [www.hpc-uk.org](http://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](http://www.asha.org) or the Canadian Association of Speech-Language Pathologists and Audiologists at: [www.caslpa.ca/english](http://www.caslpa.ca/english).

**Career opportunities**

For more detailed information on your career prospects, visit the professional associations’ websites at [www.iaslt.com](http://www.iaslt.com) and [www.rcslt.org](http://www.rcslt.org).

**Further information**

[www.tcd.ie/slscs/csls/](http://www.tcd.ie/slscs/csls/)
Tel: + 353 1 896 1496

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

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### Deaf Studies

**COURSE CODE:** TR804  
**PLACES 2007:** 25  
**POINTS 2006:** n/a  
**AWARD:** Diploma

**ENTRY REQUIREMENTS:**

**Leaving Certificate**

Students should hold 6 passes in the Leaving Certificate, including English at grade C on ordinary level or grade D on higher level papers (or grade B at GCSE level). Students should also hold a grade C on ordinary level or grade D on higher level Leaving Certificate papers (or grade B at GCSE level) in a language other than English.

**GARDA VETTING:**

Students will be required to undergo Garda vetting.  
See p. 11 for further details.

**See also:**

TR805: Irish Sign Language/English Interpreting, p. 68  
Irish Sign Language Teaching, p. 97

**The Government’s Free Fees Initiative DOES cover this course if it is taken on a full time basis. EU students registered for Deaf Studies may be eligible for inclusion in the scheme.**

**Course overview**

Deaf Studies is a two-year full-time course or three-year part-time course. No prior knowledge of Irish Sign Language (ISL) is required. It provides a comprehensive introduction to the Deaf community and Irish Sign Language for those wishing to work in or with the Deaf community. Central importance is given to the development of (i) proficiency in Irish Sign Language, and (ii) an understanding of the position of the Deaf community in Irish society and internationally. Other course modules deal with issues such as sign linguistics, bilingualism, the sociolinguistics of signed languages, Deaf people in society, ethics and professional practice, and the analysis of social policy underlying service provision to the Deaf community.

**Is this the right course for you?**

If you wish to work with the Deaf community and develop proficiency in Irish Sign Language, then this is the course for you! You should have an interest in learning about language, culture and society and be open to using technology in your learning. We have mixed age classes and multi cultural groups and promote a challenging and fun atmosphere of learning.
Course content
The following modules will be taught as part of Deaf Studies (subject to change) in 2007-2008:

Year 1
- ISL (1-5), The Linguistics and Sociolinguistics of Signed Languages, Perspectives on Deafness

Year 2
- Language Issues: ISL, Language Acquisition and Deafness, Bilingualism and Deafness, Language Processing
- Deaf Studies: Mental Health and Deafness, Deaf People and the Media, Deaf education, Colonialism and Deafness, Equality Studies
- Applied Ethics in Practice
- Practical Placement

Assessment
Award of the diploma is based on continuous assessment, a practice placement, and final examinations. A student whose placement performance is considered unsatisfactory may, in exceptional circumstances, be allowed a further placement experience. Appropriately qualified candidates who are currently working in a professional capacity within the Deaf community may take the diploma on a part-time basis over three years.

Career opportunities
Work in Deaf organisations or combined with another skill set, such as teaching, child care, etc.

Did you know?
The coordinator of Deaf Studies, Ms. Carmel Grehan, is a Deaf, ISL user. She has more than a decade’s experience of working in and with the Deaf community. She is a board member of the Irish Deaf Society and is co-author of some ground breaking research on poverty in the Irish Deaf Community (with John Bosco Conama (another CDS part-time lecturer and former Chair of the Irish Deaf Society)).

Further information
www.tcd.ie/slscs/cds
Tel: +353 1 830 1252
Fax: +353 1 830 1211
Email: cdsinfo@tcd.ie
Centre for Deaf Studies, University of Dublin, Trinity College, 40 Lower Drumcondra Road, Drumcondra, Dublin 9.

Drama and theatre studies & Drama studies

<table>
<thead>
<tr>
<th>COURSE CODES:</th>
<th>TR025</th>
<th>TR001 (TSM)</th>
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<tr>
<td>PLACES 2007:</td>
<td>16</td>
<td>24</td>
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<td>POINTS 2006:</td>
<td>475</td>
<td>480*-520</td>
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<td>DEGREE AWARDED:</td>
<td>B.A.</td>
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</tbody>
</table>

These are restricted entry courses.

TSM points: See note on p. 12

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

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

TR001 – Drama studies (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. Both subjects are normally studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

For subjects that combine with drama studies see p. 30.

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

Drama and theatre studies (single honor) – TR025
Students in this course devote their full time to the history, theory, and practice of theatre and performance studies. It is particularly appropriate for those who already have experience in theatre work, and it includes considerable work in practical theatre activities. For single honor students there are approximately 14 hours per week of classes plus rehearsals.

Drama studies (TSM joint honors) – TR001
The TSM course explores theatre and drama mainly from a theoretical and historical perspective. It combines library-based courses with training in critical and analytical skills. While it follows a similar format to its single honor equivalent – drama and theatre studies (TR025) – the practical content is more limited. For TSM students there are approximately 7 hours per week of classes plus rehearsals.
Is this the right course for you?
The strong developmental nature of drama and theatre studies means that, in addition to a high level of analytical ability, you will need to possess resourcefulness, self-motivation and good time-management skills. By its nature, practical theatre work calls for full-time commitment to rehearsal and production at certain times of the year. You will also need to have the ability to work as a member of a team to succeed on this course.

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

The Freshman years
The Junior and Senior Freshman (first and second) years will provide you with the skills of the theatre historian, analyst and practitioner. During these years, the course provides an introduction to drama, theatre and performance. Teaching is by lecture, seminar and practical workshop and is arranged in a series of three-week intensive modules over each of the three terms. Courses cover defined historical periods, genres and movements, such as ancient Greek theatre, Shakespeare, melodrama, ritual and performance, gender and performance, modern/postmodern theatre. Single honor students, in addition to all the courses above take courses in practical areas of theatre (Introduction to Performing, Introduction to Theatre Making: directing and devising, and Technical Theatre). These practical courses run throughout the entire Freshman years. These are practical courses with contextual (historical and theoretical) study.

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

The Sophister years
In the Junior and Senior Sophister (third and fourth) years, the curriculum combines 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 composed by each individual student from a range of optional courses. TSM and Single Honor students are treated equally in the Junior Sophister (third) year, with TSM students taking half the number of courses required of Single honor students. In the Senior Sophister (fourth) year, there is no difference in curriculum between TSM and Single honor students.

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

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

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

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

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

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

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

Further information
www.tcd.ie/Drama
Tel: + 353 1 896 2266
Economists aim to develop theories of human behaviour and test them against the facts. These theories are summarised in economic models that best explain the events we observe. An important part of the work of an economist is collecting and analysing data about economic phenomena – prices, employment, costs, etc. The art of the economist is to blend together theory, data and statistical techniques to arrive at a new understanding of economic problems or to make policy recommendations that hopefully will improve the welfare and living standards of our society.

Is this the right course for you?

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

Course content

The Freshman years

Economics teaching in the Freshman (first two) years emphasises the understanding of the basic principles of economics and the acquisition of the quantitative skills in mathematics and statistics necessary for more in-depth study. In the Senior Freshman year students also study the main features, performance and associated policy issues of the Irish economy in the late 1990s and early 2000s.

The Sophister years

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

Assessment

All courses are assessed by a combination of continuous assessment (tests or essays) and the formal end-of-year examination. Project work is an important component of the Senior Sophister year and students may choose to complete a dissertation on a chosen topic.

Normally, you are required to take three Economics courses in each year with two hours of lectures and one tutorial per week in each course. You will, of course, have a similar amount of lectures in your other subject. Fewer courses are required in the Senior Sophister year to allow time for more independent work.

What is economics?

Many of the problems that dominate our newspaper headlines are economic problems. Why are some countries poor with very low growth rates while a small number of countries enjoy high living standards and high growth rates? What is the role of international trade and finance in explaining these global inequalities? Why are some countries so much more successful at creating employment or reducing unemployment than other countries? Within countries, why do some people earn so much more than others, and what are the best ways to tackle and reduce poverty? Is it possible to pursue economic growth and still protect our natural and physical environments? How should governments try to raise the finance needed to pay for health and education services and income support programmes? What is the proper role for government in the economy? Would we be better off with higher taxes but also better social services than we presently enjoy?

Any society has to address the problem of how and what to produce for its material survival, and how the goods and services that are produced should be distributed among its population. Economists explore how people and institutions behave and function when producing, exchanging and using goods and services. Economists’ main motivation is to find mechanisms that encourage efficiency in the production and use of material goods and resources, while at the same time producing a pattern of income distribution that society finds acceptable.
Study abroad

Students have the opportunity to spend some time in their third year studying in partner institutions in Australia, France, Belgium, Germany and the Netherlands for either an academic year or for six months. There are programmes in place with HEC, Paris and EAP, Paris, Oxford, Madrid and Berlin whereby students spend two years at Trinity and three years abroad and emerge with a degree from both of the institutions.

Career opportunities

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

Did you know?

The courses and programmes offered by the Department reflect its excellent record of research and publication, particularly in international macroeconomics, applied economics, economic history, and the history of economic thought.

Further information

www.tcd.ie/Economics
Tel: + 353 1 896 1325

Student Profile

Colm Friel, Final year BESS

Economics’ wonderfully rational and logical nature and vast applicability to ‘real’ world issues immediately appealed to me. I was weighing up a few different colleges during sixth year but I chose Trinity based on its reputation and the impression I got of it from talking to people I knew studying there. During my time here, I found that an economics degree from Trinity has a lot of weight not just in Ireland but internationally too.

First year in BESS (TR081) gives a very general introduction to a variety of subjects. The economics course starts with the basics and builds up from there. Second year is a well coordinated follow-on. At that point I had a good grasp of lots of important economic concepts. But it wasn’t until third year that it got really interesting. There is an excellent level of choice available between different economics subjects. I chose a nice balance between quantitative and discursive type subjects. Also, during that year I joined the Student Economic Review Committee as Assistant Editor, Debates Manager and Webmaster. This was the single best activity I took part in during my four years in college. I got to know some great people, including some famous ones, and had something really impressive to show prospective employers. In fourth year, it can get quite serious, as you might expect. After developing an interest in financial economics, I chose subjects that gave me the greatest exposure to this area. I’m leaving college with several very good job offers and a first-class understanding of how the world works.

Education

COURSE CODES:
- CE001 CHURCH OF IRELAND COLLEGE OF EDUCATION
- CM001/002 COLÁISTE MHUIRE, MARINO
- FR001/002 FROEBEL COLLEGE, SION HILL, BLACKROCK

DEGREE AWARDED: B.Ed.

In addition to satisfying the matriculation requirements of the University (see p. 9) candidates must also satisfy the academic requirements of the Department of Education and Science for entrance to the course. Details of special entry requirements are available from each of the Colleges of Education (see below for contact details).

GARDA VETTING:
Students will be required to undergo Garda vetting. See p. 11 for further details.

See also:
TR009: Music education, p. 79.

What is the Bachelor in Education?

The degree of Bachelor in Education (B.Ed.) is a professional degree which is intended to provide for the academic and professional requirements of primary school teachers. The Bachelor in Education degree is provided in association with the Church of Ireland College of Education, Rathmines, the Froebel College of Education, Sion Hill, and Coláiste Mhuire, Marino. Students register both with the College of Education of their choice and with the University of Dublin, Trinity College and have full access to all Trinity’s facilities.

An ordinary degree of B.Ed. is awarded at the end of three years. Suitably qualified students may register for a fourth year of university work. Graduates of these courses are recognised by the Department of Education and Science as trained teachers in accordance with Rule 157 of the Rules of National Schools.

Course content

The degree is an integrated course of study designed to equip student teachers with the range of knowledge and skills related to the profession of primary school teaching and its curriculum.

Courses taught in Trinity include: child psychology; language study; history of education; sociology of education; educational psychology; inclusive education; curriculum and assessment; philosophy of education.

Courses taught in the Colleges of Education include: the Irish and English languages, language development and mathematics, with complementary work in areas such as arts education, religious studies, physical education, social, personal and health education (SPHE), information communication technology (ICT), social, environmental and scientific education (SESE), inclusive education and early childhood education.
School experience is central to the B.Ed. degree programme and there is a significant period of school-based practice designed to give students an opportunity to develop their practical skills of observation and teaching.

Further information
Church of Ireland College of Education
96 Upper Rathmines Road, Dublin 6.
www.cice.ie
Tel: + 353 1 497 0033

Coláiste Mhuire Marino
Griffith Avenue, Dublin 9.
www.mie.ie
Tel: + 353 1 805 7700

Froebel College, Sion Hill
Blackrock, Co Dublin.
www.froebel.ie
Tel: + 353 1 288 8520

English literature and English studies

<table>
<thead>
<tr>
<th>COURSE CODES:</th>
<th>TR023</th>
<th>TR001 (TSM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLACES 2007:</td>
<td>34</td>
<td>81</td>
</tr>
<tr>
<td>POINTS 2006:</td>
<td>505*</td>
<td>505-550</td>
</tr>
<tr>
<td>DEGREE AWARDED:</td>
<td>B.A.</td>
<td></td>
</tr>
<tr>
<td>TSM points:</td>
<td>See note on p. 12</td>
<td></td>
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</tbody>
</table>

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate
- English (HC3)

Advanced GCE (A-Level)
- English literature (A or B, Grade C)
- English language (A or B)

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

TR001 – English literature (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. Both subjects are normally studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

For subjects that combine with English literature see p. 30.

English studies (Single honor) – TR023
The study of English is concerned with the history and practices of writing in English and encompasses literary works spanning English, Anglo-Irish, American and emerging post-colonial cultures. It aims to develop a thorough knowledge of the history of these literatures while also enabling you to develop a sophisticated critical consciousness and an awareness of critical and cultural theory. Compared to English literature (TSM) students, English Studies students study literature in terms of developing genres (Poetry, the Novel, Theatre, The Essay) and they also cover a longer historical range, including literature from before 1400.

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

English literature (TSM joint honors) – TR001
English literature covers a broad range of literatures written in the English language, from Chaucer to the present day. The aim of the course is to help you acquire a thorough knowledge of the history of differing literatures while also enabling you to develop a sophisticated critical consciousness and an awareness of critical and cultural theory.

While TSM students cover all the principal areas of literatures in English, the course is less extensive than that of the single honor programme, with less emphasis on the development of genres, and a concentration on the modern period (post 1400). TSM English literature students take the first six courses listed below in the first two years.
Is this the right course for you?
If you want to study the whole range of developments in English and related literatures, from their earliest beginnings through to contemporary studies in the language you would enjoy either English literature or English studies.

English at Trinity
The School of English is strongly committed to small-group teaching. In the first two years teaching is by a combination of lectures and related tutorials. For TSM students, lectures will typically have a maximum of around 120 students, while Single honors only lectures will typically have a maximum of around 40. All freshman (first and second year) lecture courses are supported by small group teaching dedicated to that course only, and the numbers for tutorials are around 8 students. In the Sophister (third and fourth) years, all option courses are taught by seminars, with a maximum of 20 students in each seminar.

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

The School of English also coordinates many non-syllabus activities, such as lecture series, conferences and symposia, guest lecturers and visiting writers, and actively supports several journals of creative writing by undergraduates. In this way we ensure that your time studying English at Trinity is exciting and intense.

Course content
The English courses are designed so that the first two years consist of almost entirely compulsory courses, taught through a combination of lectures and seminars. Students take a variety of courses, based on period, genre, theme and nationality. Since the first two years are foundational, Critical Theory is one of the major courses in the first year. After the first two years, students have a wide freedom to choose their own English courses — in spite of some limited compulsory work in the third year, students are free to construct their own course in the advanced work that will lead to their degree.

Our commitment to small-group teaching means that you will benefit from close personal staff supervision, so that your writing and discussion skills will develop. The model of assessment means that from short first-year essays of around 1,500 words, you will by your final year be prepared to tackle major independent research projects of up to 12,000 words. Individual independent study and research are encouraged, and quite a high proportion of your time will be taken up preparing work in the library and writing essays.

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

- Critical and Cultural Theory — an introduction to the elements of critical theory, to the varieties of criticism, and to the relation of literary study to the more general field of cultural practices.
- Literature and sexualities — after an introduction to theories of sexuality, this course focuses on certain aspects of the topic arising in 19th and 20th century fiction.
- The hero: from conqueror to tourist — focusing specifically on the period 1660 to 1830, this course tackles issues including ideas of the heroic in poetry and drama, the innovations of prose fiction and the issue of gender.
- Romanticism and revolutions — a course concerned with a range of writing for the Romantic period, both in prose and poetry, and with the changing cultural contexts out of which it emerged.
- Writing Ireland: nation, nationalism, identity — this course begins with the concept of national culture and the debate about Irish identity in the 19th and early 20th centuries. It considers the issue of writing Ireland by examining the works of writers such as Yeats, Joyce and Kavanagh, as well as through examples of more recent Irish writing.
- Romance — an in-depth look at one of the most powerful and influential European genres from medieval times through to the Renaissance period.
- Victorianism — this course allows you to explore the social and cultural ethos of the period through a range of literary and non-literary texts. Texts from Emily Bronte, Tennyson, Arnold, Wilde and H. Rider Haggard are included.
- Theatre: genre, period, theme — this illustrates three different approaches to the study of drama. It begins with a consideration of the classical genres of tragedy and comedy, continues with a concentration on the period of Renaissance drama, and concludes with a focus on home and homecoming as a central dramatic theme.
- The essay — the development of the essay as a literary/critical form via a range of essayists covering both classical and modern periods.
- Fables and other narratives — concerns itself with the traditions of non-realistic fiction in English, such as fable, allegory, parody and satire, Gothic narrative and fantasy. Texts from medieval, Renaissance and modern periods are all covered.
- Introduction to Postcolonial Literature and Theory — with a strong emphasis on the history of slavery and colonialism, this course introduces students to some of the key debates in postcolonial theory and literature. The lectures focus on topics such as colonialism, resistance, the English language, mimicry and migration.
- America and the United States: Literature and the Nation — here we explore the relationship between literature and the creation of a distinctive national American identity, focusing on a range of texts (prose and poetry) from the 17th century to the present. Areas of study include the American versions of Puritanism, Romanticism, Naturalism, Modernism, and the themes of race, the West, sexuality and self-expression.
The Sophister years
In the Junior and Senior Sophister (third and fourth) years, you will choose most of your courses from a wide range of specialist options. By fourth year, courses are taught at an advanced level by seminar only.

Examples of Sophister courses may include:
- Literature of the American South
- Reading Ulysses
- African and Caribbean literature
- Nationalism and minority discourse in Irish writing
- Myths and fairies
- Post-war British fiction
- 20th century women novelists
- Reading drama
- Modernism
- American short fiction

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

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

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

Career opportunities
While it may not lead immediately to a particular career (further training would be usual), a degree in English from Trinity opens up many varied career opportunities.

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, Ph.D. degree). Many well-known creative writers are Trinity English graduates, including Eavan Boland, Deirdre Madden, Michael Longley, Derek Mahon, Brendan Kennelly and Eiléan Ní Chuilleanáin.

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

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

Head of School:
Stephen Matterson, Tel: + 353 1 896 1879, Email: smttrson@tcd.ie
European studies

| COURSE CODE: | TR024 |
| PLACES 2007: | 37 |
| POINTS 2006: | 540* |
| DEGREE AWARDED: | B.A. |

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
- HC3 if presenting any other language
- Or
- HB3 in one language other than English or Irish

Advanced GCE (A-Level)
- Grade C in two languages other than English or Irish (as listed above)
- Or
- Grade B in one language other than English or Irish

Students study two languages from French, German, Italian, Polish, Russian and Spanish.
Italian, Polish, Russian and Spanish are available from beginner level. No student may study more than one language as a beginner. See note 8 on p. 16.

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

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

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

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

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

<table>
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<tr>
<th>Junior Freshman (first) year</th>
<th>Senior Freshman (second) year</th>
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<tbody>
<tr>
<td>There are approximately 22 hours of classes per week.</td>
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</tr>
<tr>
<td><strong>Languages 1 &amp; 2:</strong> Grammar and structures of the languages, written and spoken expression and comprehension.</td>
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</table>

**History of Europe 1500-1700**
Examines political, social and cultural developments across the whole of Europe, analysing both common features and differences in various countries.

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

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

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

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

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

**Culture and politics in Europe 1700-1870**
Studies the emergence and development of modern society and culture since the Enlightenment. The core of the course concerns itself with political culture by analysing the political ideologies created from, and in opposition to, the French Revolution. You will be introduced to the central texts and figures who defined the meaning of modernity and to the social and cultural changes that carried forward the project of a modern society.

Select one of:
- **History of Continental Europe since 1870**
  Social, economic and political history are given equal emphasis in this course, which concentrates on Germany, France and Russia, as well as looking at Italy and Spain.
- **West European Politics**
  This course will familiarise you with the major theoretical, empirical and substantive issues in contemporary European politics. The course is thematic in approach and begins with an overview of the organising principles of democracy. It then examines the governmental institutions, electoral systems, party systems, policymaking practices and social cleavages of Europe. The course ends with a brief introduction to the institutions and politics of the European Union.
- **Russian and East European Politics**
  This course deals with processes of political change and transformation over six decades. The social and cultural background of politics in Russia and Eastern Europe and in particular the relationship between Central and Eastern Europe and Russia will be explored. The half-century of communist rule will be paid special attention, with a focus on key episodes that contributed to political change. The course will give important background to help students understand the experiences and difficulties encountered by these countries as they contemplate membership of the European Union in the next few years.
- **European Societies**
  This course examines different forms of social inequality in Western Europe, the divisions of class, region, gender, ethnicity and life cycle. It considers the extent to which the European Union involves a European social model of social cohesion – a particularly European way of countering the divisions of a market society. The course uses case studies from France, Germany, Italy, Sweden and the UK.
- **Intermediate Economics**
  The macroeconomic module of the courses has three steps. The first two steps study the sources of fluctuations in economic activity and the policy responses that help mitigate such fluctuations. The third step aims to understand why different countries have different long-run growth rates and different levels of prosperity. The microeconomic module of the course studies the theory and applications of microeconomics at an intermediate level. The module covers consumer theory (indifference curves and budget constraints); producer theory (isoquant curves and isocost lines); market structure (perfect competition; monopoly; monoplistic competition and oligopoly); game theory; factor markets (in perfectly competitive and imperfectly competitive settings) and general equilibrium.

* Students who wish to take this course must seek permission from the Head of the Department of economics during the Trinity Term of their Junior Freshman year, before declaring their Senior Freshman subject choice.
The Sophister years

The Junior Sophister (third) year is spent at a university abroad studying through the language you choose as your major language and this is an integral part of the course. Students have to pass their course of study at the host university in order to rise into the final year in Trinity. By and large, the intention is to allow students the freedom to follow the particular interests which they have developed in the freshman cycle of study in Trinity. So far, the year abroad has proved almost without exception to be a challenging and enjoyable experience for the students involved, in terms not only of their intellectual but also their personal development. Coping with a very different university system and successfully studying in a foreign language help develop the personal abilities of the students concerned and provide a major stimulus to their self-confidence.

A number of exchanges have been established with history and political science departments with universities in France (Paris, Strasbourg, Grenoble, Bordeaux), Germany (Hamburg, Tübingen, Freiburg), Italy (Pavia, Siena, Florence), Poland (Krakow), Russia (Moscow, Saratov) and Spain (Seville, Salamanca). The year abroad may entail additional expenses for students but support funding under the European Union’s SOCRATES scheme partially offsets this additional expense. Special help is given to students going to Russia where the SOCRATES scheme does not apply.

In the Senior Sophister (fourth) year, language work focuses predominantly on your major language. Coursework for your minor language concentrates mainly on comprehension and textual analysis. The core course in your final year is a history of ideas course: Modernism and Mass Society – ideas and culture since 1890. Additionally, you will choose one or two options from a wide range of courses from history, political science, sociology, and a number of culture and literature options from the language departments. Students who so wish are encouraged to write a ten thousand word B.A. thesis (replacing one of the options) on a subject of their own choice under the supervision of a member of staff. The third year spent abroad offers rich opportunities for students to undertake independent study in a continental European country as the basis of a final year thesis.

There are approximately 12 hours of classes per week in the Senior Sophister year.

Career opportunities

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

Further information

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

Graduate Profile

Clare Denvir
Graduated in 2004 with an Upper II.1 class degree
Job title: Policy officer: Civil Society in EU Development Policy

My experience of growing up in diverse cultural environments left me with an abiding interest in history, languages and the European integration process. The unique inter-disciplinary approach of the “European Studies” course at Trinity offered all of this and more. The beauty and location of Trinity in the heart of Dublin was a further incentive to a returning emigrant eager to rediscover the city’s vibrant cultural and social life.

I started my career at the EU institutions as part of the team which prepared Ireland’s Presidency of the EU in 2004. My post as national delegate to the Africa, Caribbean and Pacific (ACP) working group at the Council of Ministers allowed me to consolidate my knowledge of EU external relations and to develop particular expertise on development policy. I subsequently joined the Commission (DG Development) as part of the taskforce set up to negotiate the revision of the ACP-EU Cotonou Agreement. I have focused particularly on governance issues and currently assume the lead on civil society and local authorities. This includes defining EC policy on the role of civil society in development policy and providing operational support on how to mainstream participatory approaches into country and regional programming processes. Participating in inter-institutional discussions with Member States and the European Parliament and engaging in regular dialogue with external stakeholders is an integral part of this work.

By virtue of its holistic, multi-disciplinary approach, “European Studies” provided an excellent introduction to the idea of “Europe” while also providing the incentive to specialise, in my case, on the EU institutions, policies and decision-making processes. The Erasmus year abroad was undoubtedly a highlight which helped prepare for life in the multi-cultural, multi-lingual working environment in Brussels.
**Film Studies**

**Course Code:** TR001 (TSM)

**Places 2007:** 30

**Points 2006:** 445*–510*

**Degree Awarded:** B.A.

**TSM Points:** See note on p. 12

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

For subjects that combine with Film Studies see p. 30.

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**Overview**

Film Studies at Trinity College is a vibrant, demanding and extremely satisfying area of study. Since 2003 Trinity College has pioneered the Republic’s first specialist undergraduate course leading to an honors degree. The four years of the course allow students to sample a wide range of national cinemas and become fully immersed in the intellectual currents that flow in and around them. From the very beginning, questions of history, theory and context combine with issues of close analysis and interpretation to provide a course that is both rigorous and rewarding. In this way, students are offered the unique opportunity to develop an intellectual relationship with this most enduring of media.

**Is this the right course for you?**

The academic importance of Film Studies derives from the recognition that film and media are crucial components of how society is formed and informed. The emergence of sophisticated theoretical and historical studies of the subject has made high-level analysis possible. If you are interested in acquiring the critical tools to understand the medium of film in the context of economic, industrial and social policies in the era of globalisation, then this is a course you will enjoy. Film Studies is a non-vocational course. While it will help to familiarise you with the practical issues involved in film production, including how to write a script and how to produce short videos, it is primarily academic.

**Course Content**

Film Studies covers the history and critical framework of film production and consumption from the 1890s to the present day. In the Freshman (first two) years, you will be introduced to film theory and criticism and to key aspects of American, European and world cinema. These courses will introduce you to a wide range of films and film movements and to the critical methodologies used in film analysis. In the Sophister years, students choose from a wide range of Film Studies options, as well as completing a short course on scriptwriting and digital video production.

**The Freshman Years**

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

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

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

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

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

There are approximately six hours of classes and six hours of screening per week.

**The Sophister years**

In the final two years of the degree course students can choose from the wide range of optional courses available to them. Topics covered may include aspects of Hollywood cinema, avant-garde and experimental cinema, European cinemas, world cinemas, genre studies, gender and film and film theory and criticism. In addition, students are introduced to the principles of script-writing and digital video production. This allows students to become familiar with the practical issues involved in film production, including writing a script and producing short videos. This demonstrates how ideas are converted from page to screen.

**Assessment**

Film Studies is assessed by coursework and examinations.

**Career opportunities**

A degree in Film Studies offers career opportunities in areas such as the film industry; the broadcast and print media, and film reviewing and criticism. It also offers opportunities in the many general areas open to Arts graduates, such as administration, civil and public service etc. Many students also pursue postgraduate work in Film Studies or a cognate subject.

**Further information**


Tel: +353 1 896 2617

Email: filmstds@tcd.ie

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**French**

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<thead>
<tr>
<th>COURSE CODE:</th>
<th>TR001 (TSM)</th>
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<tbody>
<tr>
<td>PLACES 2007:</td>
<td>84</td>
</tr>
<tr>
<td>POINTS 2006:</td>
<td>350*-545*</td>
</tr>
<tr>
<td>DEGREE AWARDED:</td>
<td>B.A.</td>
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<tr>
<td>TSM points:</td>
<td>See note on p. 12</td>
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**SPECIAL ENTRY REQUIREMENTS:**

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

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

Alternatively, French may be selected as one of the two languages studied in the European studies programme or studied as the chosen language of either the computer science, linguistics and a language, the business studies and a language or the law and a language degree programmes.

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

For subjects that combine with French see p. 30.

**See also:**

- TR011: Computer science, linguistics and French, p. 104
- TR018: Law and French, p. 75
- TR024: European studies – French with German/Italian/Polish/Russian or Spanish, p. 49
- TR085: Business studies and French, p. 35

**Is this the right course for you?**

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

**Course overview**

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

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

The Freshman years

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

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

You will spend approximately five hours each week working on language and grammar and approximately two hours each week studying literature.

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

The Sophister years

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

Assessment

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

Study abroad

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

Career opportunities

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

Further information

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

COURSE CODE: TR001 (TSM)
PLACES 2007: 35
POINTS 2006: 430-545*
DEGREE AWARDED: B.A.
TSM points: See note on p. 12

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

For subjects that combine with geography see p. 30.

Alternatively, geography can be studied through the general entry science programme – TR071. After two years of general science study students select one subject for study in the third and fourth years which can be Geography. For special entry requirements to TR071 – science see p. 123.

Why study geography?

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

Course content

The Junior Freshman (first year) TSM Geography courses 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.

Subjects covered in the Junior Freshman year include:
- Atmospheric and oceanic sciences
- Climate change
- Environmental hazards and disasters
- Geomorphology
- Globalisation
- Global Geosystems
- Nature and society
- Practical geography (analysing geographical information)
- Uneven development
- Urbanisation

In the first year, students attend up to six lectures per week. For part of the year, they also attend one tutorial per week. Certain practical exercises are completed outside the allocated class time.

The Senior Freshman (second year) geography courses cover issues relating to cultural, economic and historical geography, and to natural and human-modified environmental processes and systems. A course on development in the third world is also taken. Statistical and related skills are developed further through the geographical methods course which includes a fieldwork component.

The Sophister years

For details of courses in the Junior and Senior Sophister (third and fourth) years see p. 133.

Assessment

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

Study abroad

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

Career opportunities

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

Did you know?

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

Further information

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

COURSE CODE: TR001 (TSM)
PLACES 2007: 32
POINTS 2006: 390-510*
DEGREE AWARDED: B.A.
TSM points: See note on p. 12
SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate: HC1 German
Advanced GCE (A-Level): Grade C German

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

For subjects that combine with German see p. 30.

See also:
TR010: Computer science, linguistics and German, p. 104
TR019: Law and German, p. 75
TR024: European studies – German with French/Italian/Polish/Russian or Spanish, p. 49
TR026: Germanic languages, p. 57
TR086: Business studies and German, p. 35

Why study German?

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

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

Is this the right course for you?

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

Course content

The Freshman years

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

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

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

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

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

The Sophister years

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

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

Assessment

At all levels, you will be assessed by a combination of project work and end-of-year written, oral and aural examinations. Senior Sophisters (fourth year students) also research and write a dissertation in the final year.
Study abroad
As a TSM German student, you must spend at least two months in a German speaking country, but in practice you are likely to spend longer, typically an academic year. Options include studying at a German university within a SOCRATES or similar exchange programme (our links include Cologne, Göttingen and Konstanz, but you can also make individual arrangements), or taking a year out in a work placement or as a language assistant in a school.

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

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

Germanic languages

| COURSE CODE: | TR026 |
| PLACES 2007: | 8 |
| POINTS 2006: | 340 |
| DEGREE AWARDED: | B.A. |

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate  HC1  German
Advanced GCE (A-Level)  Grade C  German

See also:
TR001: TSM (joint honor programme) German in combination with one other subject. For subjects that combine with German, p. 30.
TR010: Computer science, linguistics and German, p. 104
TR019: Law and German, p. 75
TR024: European studies – German with French/Italian/Polsih/Russian or Spanish, p. 49
TR086: Business studies and German, p. 35

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

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

Course content
The Freshman years
There are approximately 16 hours of lectures per week in the junior Freshman (first year). The course covers four key areas:

- The German language programme aims to build on the skills you acquired at school, concentrating particularly on the development of written skills. By the end of this year, you should be able to read articles from newspapers and magazines, to understand radio news broadcasts, to participate in conversations about your life and interests, and to write short but accurate narratives and pieces on contemporary issues. Your language learning is supported by a specially developed e-learning programme.

- Dutch is learnt from beginner level, focusing on acquiring competence in the language in the context of an introduction to Dutch and Flemish culture.
Area studies provides an introduction to society, political institutions and current affairs in Germany and German-speaking countries.

In literature and textual studies you will read and analyse literary and non-literary texts in German and follow a course on key aspects of modern German literature.

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

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

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

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

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

Career opportunities
People with languages degrees are found up to senior level in all kinds of rewarding careers. Employers value not only the language skills of German graduates, but their ‘transferable skills’: the mix of accuracy and creativity, confidence and sensitivity which marks the advanced linguist, and the maturity, flexibility and broadened understanding that comes from engaging with another culture and from the experience gained abroad. The Germanic Languages degree, with its combination of German with either one or two further, less commonly studied languages, Dutch and Swedish, gives its graduates highly distinctive skills. Recent graduates are working for employers such as Accenture, Deutsche Bank and Lufthansa or in industries such as telecoms, IT, education and public service.

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

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

Greek

COURSE CODE: TR001 (TSM)
PLACES 2007: 10
POINTS 2006: 350-510*
DEGREE AWARDED: B.A.
TSM points: See note on p. 12
SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate HC3 In Greek or in a language other than English
Advanced GCE (A-Level) Grade C In Greek or in a language other than English

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

Greek may be studied from either beginners’ or a more advanced level.
For subjects that combine with Greek see p. 30.
Greek and Latin may be studied together in the single honor Classics degree – TR021 (see p. 38).

Course overview
The emphasis of the course is on Greek language, literature and thought viewed within its cultural context. You will also study some history and archaeology to help you develop a broad understanding of the cultural and artistic achievements of the classical world.

Is this the right course for you?
If you are interested in studying, in the original language, the literature, thought and culture of one of the civilisations that shaped the western world, you will enjoy this course.

Course content
Over the four years you will read a wide variety of texts, including epic, tragedy, comedy, philosophy and history writing. Whether you are taking up Greek as a beginner or continuing your language studies, the main emphasis of the course is on studying ancient texts both as literature and as a gateway into culture and thought. For all of your language-based courses the groups will be small, stimulating lively discussion, analytic skills, and the development of independent thinking.

The Junior Freshman year
In the Junior Freshman (first) year the courses you take will depend on whether you have studied Greek before or are taking it up as a beginner. There are approximately six or seven hours of classes in the Junior Freshman year.
Arts, Humanities and Social Sciences

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

- **Introduction to Greek and Roman history** – a survey of the Greek and Roman world from the Greek Archaic age to the early Roman empire. The course covers topics such as politics and power, the Athenian invention of democracy, the rise of Alexander, the emergence of Rome as a major imperial power, colonisation, war and conflict, and various social issues.

Greek for non-beginners
- **Greek authors** – you will read the oldest and most influential works of western literature, Homer’s *Iliad* and *Odyssey* and the most engaging work of history ever written, the Histories of Herodotus.

- **Greek language** – in this course you will practice your language skills, and receive a taste of texts not covered in the authors’ course.

- **Introduction to Greek History** – you will take the Greek half of the first year history course (see details above).

The second and third years
In the Senior Freshman (second) and Junior Sophister (third) years you will progress to more in depth study of major works of Greek literature, such as Sophocles and Euripides, Aristophanes, Plato, Thucydides. Apart from analysis of the chosen texts in their literary and cultural context, the courses introduce you to critical approaches, from textual criticism to literary theory. Greek language classes provide additional assistance in improving your fluency and accuracy in reading and interpretation. You will continue to study Greek history through a mixture of lectures and small-group seminars.

The Senior Sophister year
If you choose to study Greek in the final year you will take two special subjects and write a thesis on a subject of your choice. This gives you a chance to investigate thoroughly an area that particularly interests you and to develop independent research skills. Recent final year courses have included Greek political philosophy, Polybius and the Hellenistic empire, the tragedies of the House of Atreus and Plutarch and the biographical tradition.

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

Study abroad
Trinity has strong international links with many Classics departments abroad, including active participation in the SOCRATES exchange programme with universities in France, Switzerland and Cyprus. This allows students the option of spending their Senior Freshman (second) year abroad.

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

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

![Owl of Athena on an Athenian coin](departmental-coin-collection)
**History**

**COURSE CODES:** TR003  TR001 (TSM)
**PLACES 2007:** 38  40
**POINTS 2006:** 440  500*-520
**DEGREE AWARDED:** B.A.

TSM points: See note on p. 12

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

TR001 – History (TSM) cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. Both subjects are normally studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

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

For subjects that combine with history see p. 30.

See also:
- TR012: History and political science, p. 62
- TR027: Irish studies, p. 69
- TR009: Music education, p. 79

**Is this the right course for you?**

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

**Course content**

The history programme is designed to ensure that you acquire a systematic knowledge of European and Irish history, with options in American, and some African and Indian courses as well, and also to introduce you to particular aspects of history along socio-political, cultural and economic lines.

**The Freshman years**

**The Junior Freshman (first) year:**

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

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

- **History of Europe 1000-1250**
  Covers European history in the central middle ages and deals particularly with the internal history of France, Germany, Italy and Byzantium. The emphasis is on political and institutional developments, ecclesiastical history, history of political thought, intellectual history and the development of schools, the religious orders and religious dissent. The history of the papacy is also considered in great detail.

- **History of Britain 1000-1485**
  Covers most of the major historical developments in Britain from the end of the Anglo-Saxon kingdom until the accession of the Tudors in 1485. While the emphasis is on a chronological analysis of political events within the period, many important socio-economic questions are also covered.

- **History of Ireland 1014-1534**
  Topics and trends rather than a narrative of events are emphasised on this course. Particular attention is given to the development of Gaelic Ireland, patterns of settlement, the economy, the church and religion, politics and the constitution, Anglo-Irish relations, war and civil disturbance, and government and society.

- **History of Europe 1500-1700**
  Highlights political, social and cultural developments across the whole of Europe by selecting specific common features and studying variants of these in certain countries. Reform of state and society, the first and second reformations (Protestant and Catholic), the changing patterns of early modern risings, and revolts and civil wars play a leading role in the subjects covered.

- **Learning for Historians**
  Learning for Historians is designed to familiarise students with the essential skills required for historical research and academic writing. Throughout your first term, a combination of weekly tutorials and themed exercises will introduce you to a variety of topics ranging from using the library’s collections and making the most of the internet for historical research to preparing a bibliography and presenting your findings in essays and assignments.
As a Senior Freshman (second year student) you will be introduced to courses in modern Irish, British, European and American history.

All students take either a full year course in History of Continental Europe since 1870 or in History of Ireland 1800 to the present and select full or half year options from the list below amounting in all to a whole study requirement for the academic year in the case of Single Honor students or a half requirement in the case of Two Subject Moderatorship students. In the case of TSM students, their options are chosen from the first six topics in the list below:

- Ireland, Britain and Western Europe, 400-1000
- History of Europe, 1250-1500
- History of Britain since 1603
- History of the USA since 1607
- Culture and politics in Europe, 1700-1870
- History of Ireland, 1500-1800
- History of political thought
- The economy of Ireland
- Introduction to sociology

All students must take:

- Learning for Historians or any Broad Curriculum course (see p. 18 or www.tcd.ie/Broad_Curriculum)

The Sophister years

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

Taught courses arise from the specialisations of the teaching staff and vary from year to year. Current options in the Sophister (third and fourth) years include:

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

All Single Honor students take a course in Research Methods in their third year. In their fourth year all Single Honor and all Two Subject Moderatorship students who are continuing in History also take a course in Dissertation Preparation.

Assessment

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

Study abroad

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

Career opportunities

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

Did you know?

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

Further information

www.tcd.ie/history
Tel: + 353 1 896 1791/1020
History and political science

Course overview

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

COURSE CODE: TR012
PLACES 2007: 19
POINTS 2006: 500
DEGREE AWARDED: B.A.

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

TR001: TSM (joint honor programme) history in combination with one other subject. For subjects that combine with history see p. 30.
TR003: Single honor course in history, p. 60.

You can also study political science through several other programmes, see p. 85.
Courses are designed to allow your individual preferences to shape the overall character of your studies, and permit you to specialise in a number of different ways.

In each of the first two years students take 5 courses – either 3 history courses and 2 political science courses OR 2 history courses and 3 political science courses. In addition, a module on ‘Learning for Historians’ is optional in the first year and compulsory in the second (unless a Broad Curriculum course is taken in substitution see p. 18 or www.tcd.ie/Broad_Curriculum)

<table>
<thead>
<tr>
<th>History Courses</th>
<th>Political Science Courses</th>
</tr>
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<tbody>
<tr>
<td>The work of the first two years is designed to provide you with a systematic foundation in the subject.</td>
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</tr>
</tbody>
</table>

Junior Freshmen (first year students) select from:
- History of Europe 1000-1250
- History of Britain 1000-1485
- History of Ireland 1014-1534
- History of Europe 1500-1700

Junior Freshmen (first year students) select from:
- Introduction to political science
- Introduction to sociology
- Introduction to economic policy

Senior Freshmen (second year students) select from:
- Ireland, Britain and Western Europe, 400-1000
- History of Europe, 1250-1500
- History of Ireland, 1500-1800
- History of Britain since 1603
- History of the USA since 1607
- Culture and politics in Europe, 1700-1870
- History of continental Europe since 1870
- History of Ireland, 1800 to the present

Senior Freshmen (second year students) select from:
- History of political thought
- Russian and East European politics
- West European politics

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

Subjects available in the Sophister years (three and four) include:
- The archaeology of medieval castles
- The age of Dante and Petrarch
- Empire and Papacy in the eleventh century
- The Reformation in Europe, 1500-1535
- History and heritage
- Revolution and civil war in Ireland, 1919-1923
- The Weimar Germany
- World War II, France and its historians
- The United States from Truman to Kennedy
- The politics of national salvation in Ireland, 1957-1969
- Sub-Saharan Africa since 1875

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

Research Methods for Political Scientists, including research and writing a dissertation
- Irish politics
- Transition Politics
- International Political Theory
- Comparative Political Institutions
- European Public Policy
- Contemporary political theories
- Political Parties
- Contemporary Political Issues
- The Nation and Post-Colonialism
- The Transformation of War in the Post-Cold War Era
- Democracy and Dictatorship: Comparative politics of developing countries
Assessment
A combination of essays, assignments and end-of-year examinations make up the assessment process.

Study abroad
Both the Politics and History Departments have arrangements allowing students to study abroad in another university for a term or a year. It is recommended that students who wish to avail of this opportunity do so in their Senior Freshman (second) year.

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

History of art and architecture

<table>
<thead>
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<tr>
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<td>B.A.</td>
</tr>
<tr>
<td>TSM points:</td>
<td>See note on p. 12</td>
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</tbody>
</table>

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

For subjects that combine with history of art and architecture see p. 30.

Is this the right course for you?
History of art and architecture appeals to a wide range of students, as well as those with special interests in art, archaeology and history. It will provide you with an effective way of developing intellectual rigour and of acquiring the critical and communication skills traditionally associated with an arts degree.

You do not need any previous knowledge of art history or any practical skill in art to take this course.

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

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

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

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

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

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

These courses amount to a weekly total of four lectures, two seminars and a two-hour Small Group session.

**Years two, three and four**

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

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

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

**The special subject**

If you elect to study history of art and architecture in the Senior Sophister (fourth) year, you will select a subject dealing with art-historical issues at a more specialised level. Where possible, you will be given the opportunity of studying primary sources and particular emphasis is placed on personal observation and interpretation of original works of art, whether painting, sculpture or architecture. Examples of special subject topics include Irish art in the golden age c. 650-950, topics in post-medieval architecture, classicism, Spanish painting from the Escorial to Goya, and realism in Britain and France 1840-1900.

**Study abroad**

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

**Assessment**

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

**Career opportunities**

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

**Did you know?**

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

**Further information**

- [www.tcd.ie/History_of_Art](http://www.tcd.ie/History_of_Art)
- [www.douglashydegallery.com](http://www.douglashydegallery.com)
- Tel: + 353 1 896 1995
Irish
(early Irish and modern Irish)

<table>
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<th>COURSE CODES:</th>
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<th>TR001 (TSM-MI)</th>
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<tr>
<td>TSM points:</td>
<td>See note on p. 12</td>
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</table>

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate: HC3 Irish
Advanced GCE (A-Level): Grade C Irish

Students may study:
EITHER Early and Modern Irish (TR022)
OR
Early Irish (EI) in combination with one other subject (TR001)
OR
Modern Irish (MI) in combination with one other subject (TR001)

TR022 – Early and Modern Irish is a single honor course.
In TR001 (TSM), either Early Irish or Modern Irish cannot be studied as a single honor course. One of them must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. Both subjects are normally studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

For subjects that combine with early Irish and with modern Irish see p. 30.

See also:
TR013: Computer science, linguistics and Irish, p. 104
TR027: Irish studies, p. 69

Early Irish component

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

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

Course content

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

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

The Freshman years

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

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

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

Senior Freshman (second) year courses:

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

The Sophister years

Courses in the third and fourth years include:

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

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

Assessment

Assessment is by exercises and essays submitted during the year, as well as end-of-year examinations. In the final year you must also research and write a dissertation.
Career opportunities
Some students of early Irish carry on with postgraduate study in related areas such as history, interpreting and translation while others proceed to teacher training courses, or to work in the media, business, marketing or public service.

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

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

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

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

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

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

The Freshman years
Junior Freshman (first) year courses include:
- Modern literary texts
- Modern Irish language and history
- Classical Irish prose and verse
- Composition
- Language laboratory
- Introductory course on language study

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

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

### Core subjects
- Junior Sophister (third) year:
  - Composition
  - Linguistics and dialect study
  - Connacht dialect
  - Munster dialect
  - Ulster dialect
  - Scottish Gaelic language

- Senior Sophister (fourth) year:
  - Irish palaeography
  - Composition

### Optional courses
In each of the third and fourth years you will select four optional courses from:
- Early modern prose
- Seventeenth-century post-classical poetry
- Seventeenth-century prose
- Ossianic and romantic prose
- Ossianic poetry
- Classical poetry
- Language variation
- Eighteenth-century verse
- Eighteenth-century prose
- Scottish Gaelic literature
- Twentieth-century prose (either novel or short story OR autobiography or drama)

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

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

Career opportunities

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

Did you know?

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

Further information

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

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Irish Sign Language/English Interpreting

COURSE CODE: TR805
PLACES 2007: 12
POINTS 2006: N/A
AWARD: Diploma

ENTRY REQUIREMENTS:
Restricted entry criteria applies to this course.
Applications must be received by 1 February of the proposed year of entry.
Students will also be required to attend an interview.

Leaving Certificate
Students should hold a minimum of 6 passes in the Leaving Certificate, including English at higher level grade C or above (or grade C at A-Level) and a pass in a language other than English at Ordinary Level.

Students should also have completed at least one year of ISL tuition or have the language as a ‘mother tongue’.

GARDA VETTING:
Students will be required to undergo Garda vetting.
See p. 11 for further details.

See also:
TR804: Deaf Studies, p. 41
Irish Sign Language Teaching, p. 97

The Government’s Free Fees Initiative DOES cover this course. EU students registered for Irish Sign Language/English Interpreting may be eligible for inclusion in the scheme.

Course overview

Irish Sign Language/English Interpreting is a two-year full-time course and includes professional placement opportunities. It provides generic professional training for those who wish to work as Irish Sign Language/English interpreters. Central importance is given to the development of (i) proficiency in Irish Sign Language, and (ii) interpreting skill development. Other course modules deal with issues such as sign linguistics, bilingualism, the sociolinguistics of signed languages, Deaf people in society, ethics and professional practice.

Is this the right course for you?

If you wish to work in a challenging environment, facilitating access to education, health, legal and social settings, then this is the career for you! You must have communicative competence in ISL on entry and be willing to engage in an intensive programme of study and practice that will challenge your perceptions of language, culture and society. It is also desirable that students have an interest in world affairs (perhaps by studying history or geography in the Leaving Certicate). Course delivery makes use of cutting edge technologies. Classes are mixed in terms of age and ethnicity, promoting a challenging and fun learning environment.

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Graduate Profile (Irish Sign Language/English Interpreting)

Pauline McMahon, Dublin, Mature student

I have really enjoyed my experience here at CDS. I have learned a huge amount, not just about ISL but also the Deaf community. It’s been a very rewarding experience that I’ll be sure to recommend to anyone in a position to apply for it in the future. I have found it wonderful to be in a Deaf environment with total access to staff support. I been involved in voluntary activities in the Deaf community and made friends and have decided that interpreting is the career for me.
Course content

The following modules will be taught as part of ISL/English Interpreting in 2007-8:

Year 1
- ISL (1-5)
- The Linguistics and Sociolinguistics of Signed Languages
- Perspectives on Deafness

Year 2
- Interpreting: Consec, Liaison, Sim A,B,C, Practical Placements
- Interpreting Theory: TIPP, Language Processing
- Applied Ethics in Practice (1,2)
- ISL (6)

Assessment

The award of the diploma is based on continuous assessment of course modules, a practice study based on the placement, and final examinations in interpreting. A student whose placement performance is considered unsatisfactory may, in exceptional circumstances, be allowed to undertake further practice. Students must achieve a grade average of 50% in ISL to rise to the second year of ISL/English Interpreting.

Career opportunities

Irish Sign Language/English interpreters work in a wide range of challenging environments. This can include interpreting for births and funerals, at every level of education (pre-school through to Ph.D.), in courts, at police stations, in hospitals, at conferences and in employment. Interpreters work on a freelance basis independently or through an interpreting agency (e.g. Bridge Interpreting, Irish Sign Language Interpreting Service) or as a staff interpreter for an organisation (e.g. Kerry Deaf Resource Centre (Tralee), Paul Partnership (Limerick), the National Association for Deaf People, etc.). There is currently a national shortage of interpreters and highly qualified graduates are in demand.

Did you know?

Some 70% of our lecturers are Deaf, which results in authentic learning about Deaf Culture and experiences.

Further information

www.tcd.ie/slscs/cds
Tel: +353 1 830 1252
Fax: +353 1 830 1211
Email: cdsinfo@tcd.ie

Centre for Deaf Studies, University of Dublin, Trinity College, 40 Lower Drumcondra Road, Drumcondra, Dublin 9

Irish Studies: An Interdisciplinary course in Irish Civilisation

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<td>DEGREE AWARDED:</td>
<td>B.A.</td>
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SPECIAL ENTRY REQUIREMENTS:
- Leaving Certificate: HC3 in a language other than English
- Advanced GCE (A-Level): Grade C in a language other than English

See also:
- TR023/001: English literature and English studies, p. 46
- TR003/001: History, p. 60
- TR022/001: Irish, p. 66

Course overview

This is an exciting new interdisciplinary programme which has been devised by the Irish, English and History Departments in collaboration with the Departments of Geography, Politics, History of Art and Genetics. It has been designed to give you the opportunity to study in depth the literature, history, language and culture of Ireland in an original and integrated way. The course aims to enable you to study Irish literature in the Irish and English languages; to acquire a grasp of the main periods of Irish history; and to familiarise you with key concepts in the interpretation of Irish culture. It aims also to provide you with a working knowledge of modern Irish. Instruction at beginner’s level will be provided for those with no previous knowledge of Irish.

Is this the right course for you?

If you have an interest in the history, literature, and culture of Ireland and have an aptitude for language learning you will enjoy this course.

Course content

There will be a mixture of compulsory and optional courses. During the final year, there will be particular emphasis on optional courses, allowing you to specialise in areas where you have developed particular interests. Assessment throughout the four years will be a mixture of continuous assessment and examination. You will also write a dissertation in your final year. Courses are likely to include:

The Junior Freshman year
- Imagining Ireland – a multidisciplinary course which will seek to examine how Ireland and the Irish have been represented in visual culture, in the literary arts and historical discourse from earliest times to the present
Arts, Humanities and Social Sciences

Irish Language
Irish Literature
History of Ireland, 1014-1534
Theorising Ireland

Students take between twelve and fourteen hours of classes in the Junior Sophister (first) year.

The Senior Freshman year

Ideas and Society in Ireland: From Cromwell to the Good Friday Agreement: 1658-1998
Irish Language
Irish Writing in English, 1590-1800
History of Ireland, 1500-1800

There will also be a choice of optional courses available from the Departments of English, Irish, Geography and the Centre for Language and Communication Studies.

The Junior Sophister year

History of Ireland, 1800 to the present
Either Introduction to Early Irish or Literature in Irish
Irish Writing in English, 1800-1880
Writing Ireland

There will also be a course on Research Methodologies in preparation for the dissertation which you will write in the Senior Sophister year.

The Senior Sophister year

Course options will be offered by the Departments of English, History, Irish, Geography, History of Art and Politics from which you will choose three. You will also write a dissertation on a topic agreed with your academic supervisor. Options may include:

Early Christian Ireland
Modern Irish Politics
Modern Irish Literature
Historical Geography of Ireland
History Writing in Britain and Ireland, 1840-1940
Ulster and Ireland
Popular Culture in Twentieth-Century Ireland

Career opportunities

Graduates in Irish Studies can expect to arrive at the normal range of career destinations for Arts and Humanities graduates; for example, teaching, journalism, cultural, arts and heritage administration, management, civil service, the diplomatic corps, publishing, media work, translation services, advertising, public relations, human resources, etc.

Further information

www.histories-humanities.tcd.ie/irishstudies/index.php
Tel. +353 1 896 2625

Italian

COURSE CODE: TR001 (TSM)
PLACES 2007: 30
POINTS 2006: 390-550
DEGREE AWARDED: B.A.
TSM points: See note on p. 12

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

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

For subjects that combine with Italian see p. 30.
Alternatively, Italian may be selected as one of the two languages studied in the European studies programme.
Italian can be studied ab initio (from beginner level) within both TSM and European studies.

See also:
TR024: European studies – Italian with French/German/Polish/Russian or Spanish, p. 49

Course overview

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

Is this the right course for you?

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

Course content

The Freshman years

In the Junior Freshman (first) year you will follow an intensive beginners’ course in grammar, translation, conversation, audio and computer-based learning.
There are approximately eight classroom hours per week, most of the time being devoted to language learning in your first year. Each week includes grammar, conversation class and other activities, and assignments to be carried out independently. You will be introduced to modern Italian poetry, drama and fiction in your second and third terms through weekly lectures.

In the Senior Freshman (second) year you continue with language courses and the study of core literary texts. In addition you will follow two optional subjects in areas of particular interest, which could include 18th-century Italian theatre, 20th-century Italian fascism, or a wide range of options drawn from linguistics or from the College’s “Broad Curriculum” programme (see p. 18).

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

In your final year the programme includes courses on Italian language varieties, the works of Dante and Boccaccio, the history of language and a selection of optional topics for study in depth. You will write a substantial final-year dissertation on an agreed topic.

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

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

Students who do not participate in an exchange programme may substitute one second-year option in Italian with a course offered through the Broad Curriculum initiative (see p. 18 or www.tcd.ie/Broad_Curriculum).

Career opportunities
Recent graduates who have progressed directly to employment have chosen careers ranging from PR and translation through teaching to internships with Irish companies in Italy, working with both governmental and commercial organisations. Of the graduates who opted for further study, some selected related courses in arts, social sciences, and European studies while others have selected law, marketing, journalism or teacher training.

Further information
www.tcd.ie/Italian/index.php
Tel: + 353 1 896 2062
Email: italian@tcd.ie
Course content
Over the four years a wide variety of texts is studied, including epic, love poetry, satire, political and historical writing. Whether you are taking up Latin as a beginner or are continuing your language studies, the main emphasis of the course is on studying ancient texts both as literature and as a gateway into culture and thought. For all of your language-based courses the groups will be small, stimulating lively discussion, analytic skills, and the development of independent thinking.

The Junior Freshman year
In the Junior Freshman (first) year the courses you take will depend on whether you have studied Latin before or are taking it up as a beginner. Students take six or seven hours of classes in the Junior Freshman year.

Latin for beginners
- **Elementary Latin** – an intensive introduction to the Latin language. By the end of the year you will be ready to read original texts and your command of the language will be at the same level as those who have studied Latin before entering university.
- **Greek and Roman history** – an introductory survey of the Greek and Roman world from the Greek Archaic age to the early Roman empire. The course covers topics such as politics and power, the Athenian invention of democracy, the rise of Alexander, the emergence of Rome as a major imperial power, colonisation, war and conflict, and various social issues.

Latin for non-beginners
- **Latin texts** – you will read a selection of works by some of the great writers of the late republican and early imperial period: the poetry of Catullus and Virgil, and one of Cicero’s famous legal speeches.
- **Latin language** – in this course you will practice your language skills, and receive a taste of texts not covered in the authors’ course.
- **Introduction to Roman History** – you will take the Roman half of the first year history course (see details above).

The second and third years
In the Senior Freshman (second) and Junior Sophister (third) years you will progress to more detailed study of major works of Roman literature. These may include the poetry of Horace, Propertius and Ovid, the historical prose of Livy and Tacitus, the philosophical writings of Seneca, and the novels of Petronius and Apuleius. Apart from analysis of the chosen texts in their literary and cultural context, the courses introduce you to critical approaches, from textual criticism to literary theory. Latin language classes provide additional assistance in improving your fluency and accuracy in reading and interpretation. You will continue to study history through a mixture of lectures and small-group seminars.

The Senior Sophister year
If you choose to study Latin in the final year you will take two special subjects and write a thesis on a subject of your choice.

This gives you a chance to investigate thoroughly an area that particularly interests you and to develop independent research skills. Recent final year courses have included Roman satire, Desire and the body, Didactic poetry, and Alexandria and Rome.

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

Study abroad
Trinity has strong international links with many Classics departments abroad, including active participation in the SOCRATES exchange programme with universities in France, Switzerland and Cyprus. This allows students the option of spending their Senior Freshman (second) year abroad.

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

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

![Arch of Titus, Rome](image)
Why study law at Trinity?

Trinity College Law School is Ireland’s oldest and most prestigious Law School. With a distinguished team of professors and lecturers, many of whom are the leading experts in their fields of study, the Law School attracts students of the highest calibre and currently has a student population of approximately 400 undergraduates and 130 post-graduates. It is ideally situated on the historic campus of Trinity College Dublin in the city centre, close to the courts, the Oireachtas (the National Parliament) and government departments.

As Ireland’s oldest Law School, Trinity is strongly committed to the service of society through education, research and public service activities. The commitment to rigorous legal scholarship has placed Trinity at the forefront of legal research in Ireland. In addition, Trinity is home to one of Ireland’s leading periodicals, the Dublin University Law Journal, and to the Trinity College Law Review, published by the student members of the College’s Law Society.

As educators, the Law School staff seek to promote standards of academic excellence, and in particular, the ability to think analytically, among the student body. We offer a wide and well thought out range of options during the Sophister years (third and fourth years). In addition to the core subjects required by the professional bodies to practice law, Trinity’s Law School also offers a range of modules which allows for specialisation, while at the same time ensuring there is diversity in the subjects offered.

A relatively small and very friendly Law School, the Law School staff and students form a vibrant community inspired by the values of mutual respect and co-operation. Student welfare is at the heart of the School’s activities and we welcome enquiries from anyone contemplating the study of law at Trinity College Dublin.

Is this the right course for you?

The study of law will appeal to those who are idealistic and who wish to contribute to society. It is particularly suitable for those who like to approach problems in a systematic, logical and inquiring fashion. Legal training requires precise and careful use of language.

Good writing skills and a facility for articulate expression are, therefore, important. A general interest in history and political developments will also be of advantage as many legal subjects cannot be fully appreciated without reference to their historical and political context.

Course overview

The first two years are given over to the study of core legal subjects, including law of property, criminal law, constitutional law, torts (civil wrongs), contract, and European Union law. Thereafter, the class breaks up into groups so that you can pursue your own developing interests. This makes for a close relationship between staff and students.

Law at Trinity is a four-year degree programme. It involves relatively few classroom hours, but you will need to spend a great deal of time working and researching in the library. Students attend two hours of lectures per subject each week. In the Freshman years students must attend three seminars per subject for the Michaelmas and Trinity Terms. Attendance at seminars is also required for some Sophister modules. There are normally three seminars per subject per term (for two terms only). Essays and other written work are assigned on a regular basis, and you will also be required to prepare work in advance for seminars.

The Freshman years

Junior Freshman (first year) courses:

- **Torts**
  Topics covered include the major torts such as negligence, defamation and nuisance, but issues such as defences, limitation periods and the interaction between the law of torts and the constitution are also addressed.

- **Legal systems and methods**
  Designed to introduce you to important institutions and doctrines of the Irish and European legal systems, and to develop the necessary legal skills required to read case law and interpret legal documents.

- **Constitutional law I**
  This involves the study of Irish constitutional law within a historical and comparative context. The differing objectives of distinct areas of this branch of law are stressed – the preoccupation with principles of good government no less than with the protection of constitutional rights. Constitutional evolution in Britain, Northern Ireland and the US is also outlined. Throughout, the role of the courts in the establishment of constitutional norms is emphasised.

- **Criminal law**
  Covers the definition of crime in Irish law; the rules of proof in a criminal trial; the constituent elements of offences; the mental states required for criminal offences; questions of causation; how criminal law deals with the issues of insanity, intoxication, forms of homicide, forms of assault, sexual offences such as rape, certain offences against property, such as theft; and offences involving deception.

Senior Freshman (second year) courses:

- **Contract**
  Contract is one of the core subjects of the common law of obligations. It involves analysis of (i) the legal principles behind the rules relating to the formulation of contracts, (ii) the circumstances in which they will not come into existence or in which they cease to be effective, and (iii) relevant remedies.
Constitutional law II
Focuses on certain fundamental rights guaranteed by the Constitution, notably those relating to the family, education, religion and liberty, as well as the freedom of association, expression and assembly. The second half of the course examines aspects of administrative law and focuses on judicial review of administrative action.

Land law I
An introduction to the considerable body of common law, equitable principles and legislation which governs the various ways in which land may be acquired, held and alienated. It commences with an historical account of the evolution of land law, an understanding of which is fundamental to an appreciation of the complex system in operation in Ireland today. The substantive areas dealt with include leases, rights of way, the use of land as security, and succession to the property of deceased persons.

European Union law
This course aims to provide an introduction to the law and institutions of the European Union, in particular to examine their origins and development. The first part of the course concentrates on constitutional issues, including the workings of the institutions and legal system. The second part of the course examines selected aspects of substantive law, including free movement of goods and persons and an introduction to EU Competition law.

The Sophister years
In each of the Junior and Senior Sophister (third and fourth) years you will select four subjects from a list of about twenty law subjects. The law subjects are advanced specialist subjects and they include: advanced European Union law; civil and criminal procedure; company law; comparative law; commercial law; conflict of laws; criminology; environmental law; equity; evidence; family law; human rights; intellectual property law; international law; international trade law; jurisprudence; labour law; legal and economic aspects of competition policy; public interest law; refugee and immigration law; restitution; tax law; and sport and the law.

Alternatively, in place of a legal subject, students may study three Broad Curriculum subjects in each sophister year (see p. 18 or www.tcd.ie/broad_curriculum)

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

Assessment
Assessment is by a combination of term assignments and written end-of-year examinations.

Study abroad
A limited number of places are available on EU funded exchange programmes at universities in Austria, France, Germany, Italy, the Netherlands and Spain to students in the Junior Sophister (third) year. Optional language courses (see p. 18) in the first two years must be undertaken should you wish to avail of this opportunity. There are also exchange programmes with a number of universities in North America.

Career opportunities
A law degree provides the ideal foundation for the aspiring solicitor or barrister. However, law offers wider opportunities than professional practice alone, with many graduates finding employment in business, journalism, accountancy, banking, insurance, politics, foreign affairs, diplomacy, the financial services sector and in public administration.

Law degrees and professional qualifications
No law degree entitles a person to practise law as a solicitor or barrister. If you wish to go on to obtain a professional qualification, the governing bodies for the profession require that you take certain specific subjects, although the particular requirements have varied from time to time.

If you are contemplating seeking a professional qualification as a barrister you should consult the Director of Education, King’s Inns, Henrietta Street, Dublin 1, (www.kingsinns.ie) while prospective solicitors should consult the Director General, The Law Society, Blackhall Place, Dublin 7 (www.lawsociety.ie).

Separate requirements apply in Northern Ireland. Prospective barristers should consult the Under Treasurer, The Inn Court of Northern Ireland, Royal Courts of Justice, Belfast BT1 3JF (www.barlibrary.com), while prospective solicitors should consult the Secretary, the Incorporated Law Society of Northern Ireland, Law Society Houses, 90-106 Victoria Street, Belfast BT1 3ZJ (www.lawsoc-ni.org).

In view of rapid changes relating to the rules of entry into professional study, students are advised to maintain regular contact with the relevant professional bodies so that they are aware of any new requirements coming on-stream.

Further information
www.tcd.ie/Law
Tel: + 353 1 896 1125
**Overview**

Law and French and Law and German are demanding programmes that give you the opportunity to learn about the law, language and culture of one of the principal continental civil law jurisdictions, in addition to receiving a full grounding in Irish and general EU law. Far more is involved than simply attaching a language component to a law degree. Students study French or German law, both constitutional and civil, in their first two years. These law subjects are taught and examined through the relevant language. The language component of each programme is integrated so that language skills are developed in the context of studying the general, as well as the specifically legal, culture of the country concerned. Each programme is taught over four years with a compulsory year abroad.

**Is this the right course for you?**

In addition to a desire to study law, you will need a specific and strong interest in the general culture, legal, political, economic and sociological make-up of either France or Germany. You should also be willing and have the ability to become fluent in the relevant language.

**Course content**

In the Freshman (first two) years you will study a variety of legal subjects including legal systems and methods, constitutional law, torts, criminal law, contract, land law and the constitutional and civil law of your chosen jurisdiction. Alongside this you will take an integrated course on language and civilisation covering aspects of sociology, legal systems and politics. Lectures, tutorials and language laboratory work are all involved. Students must attend two hours of lectures per week per subject. In addition to lectures students are also required to attend three seminars per term for the Michaelmas and Hilary Terms for law subjects. Weekly seminars are also held for each of the language modules.

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**Junior Freshman courses**

- Torts*
- Legal systems and methods*
- Constitutional law I*
- French or German language
- French or German civilisation
- Landeskunde and German constitutional law or French constitutional law

Junior Freshman law and French students study French constitutional law through French as well as French language and civilisation. This integrated course of lectures, tutorials, and language laboratory work covers language, French society and the French legal system.

Junior Freshman Law and German students study the political institutions and aspects of society and economy in the German speaking countries. The course involves an introduction to German constitutional law and the German legal system, German legal history and legal philosophy.

**Senior Freshman courses**

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

Senior Freshman law and French students study French civil law (including property, contract and tort) through French. In their integrated French language and civilisation course, they cover French politics and legal methodology in preparation for the Junior Sophister year (third) studying in France.

In the Senior Freshman year the Germanic Studies department provides an introduction to the German university system and its study practices. There is also an introduction to the specialist language used in legal texts. Students receive an intensive introduction to German Civil Law and jurisprudence and German Criminal Law.

*See pp. 73-74 for course details.

**The Sophister years**

The Junior Sophister (third) year is spent studying legal or related subjects in a French or German university. For students of Law and French this will be at the universities of Paris II – Panthéon-Assas, Poitiers, Bordeaux IV or Sciences Po, Paris. For students of Law and German this will be at the universities of Wurzburg, Hamburg, Mainz, Humboldt (Berlin), Jena, Passau, Munich, Freiburg, Tubingen or Erlangen-Nurnberg in Germany, or at the University of Linz in Austria. The results obtained studying abroad form a substantial part of your final degree grades.

In the Senior Sophister (fourth) year, you select four legal subjects from about twenty options (though if you wish to practice professionally as a solicitor or barrister the range of options is
significantly restricted). In addition, you will engage in language and oral work and project/report writing. Alternatively, in place of a legal subject, students may study three Broad Curriculum subjects (see p. 18 or www.tcd.ie/Broad_Curriculum) or a write a dissertation in French or German on an approved aspect of French or German law.

Senior Sophister Law and French students study French Translation, Report Writing and Oral French in addition to four full law options. In the Senior Sophister years Law and German students attend seminars on German and German European Law.

Assessment
A combination of assignments and aural, oral and written examinations is used. There is a strong element of continuous assessment in language and French or German law subjects.

Career opportunities
The increasing Europeanisation of legal practice means that graduates of the law and a language degree programme have much to contribute to the legal and other professions in Ireland, as well as enjoying career opportunities in Europe.

Law degrees and professional qualifications
No law degree entitles a person to practise law as a solicitor or barrister. If you wish to go on to obtain a professional qualification, the governing bodies for the profession require that you take certain specific subjects, although the particular requirements have varied from time to time.

If you are contemplating seeking a professional qualification as a barrister you should consult the Director of Education, King’s Inns, Henrietta Street, Dublin 1, (www.kingsinns.ie) while prospective solicitors should consult the Director General, The Law Society, Blackhall Place, Dublin 7 (www.lawsociety.ie).

Separate requirements apply in Northern Ireland. Prospective barristers should consult the Under Treasurer, The Inn Court of Northern Ireland, Royal Courts of Justice, Belfast BT1 3JF (www.barlibrary.com), while prospective solicitors should consult the Secretary, the Incorporated Law Society of Northern Ireland, Law Society Houses, 90-106 Victoria Street, Belfast BT1 3ZJ (www.lawsoc-ni.org).

In view of rapid changes relating to the rules of entry into professional study, students are advised to maintain regular contact with the relevant professional bodies so that they are aware of any new requirements coming on-stream.

Further information
www.tcd.ie/Law
Tel: + 353 1 896 1125

Music

<table>
<thead>
<tr>
<th>COURSE CODES:</th>
<th>TR002</th>
<th>TR001 (TSM)</th>
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<tbody>
<tr>
<td>PLACES 2007:</td>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>POINTS 2006:</td>
<td>465</td>
<td>520-550</td>
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<td>DEGREE AWARDED:</td>
<td>B.A.</td>
<td></td>
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<tr>
<td>TSM points:</td>
<td>See note on p. 12</td>
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These are restricted entry courses.

Applications must be submitted by 1 February of the proposed year of entry. Applicants will be required to attend an entrance examination, provisionally scheduled for 29 March 2008.

Specimen examination papers are available for download from the Music Department web site: www.tcd.ie/Music/admission.php

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.

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.

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

TR001 (TSM) Music cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. Both subjects are normally studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

For subjects that combine with music see p. 30.

See also:
TR009: Music education, p. 79

Course overview
The Single Honor and two-subject courses provide a thorough grounding in the basic skills of musicianship and academic study (see below for details). Single honor and TSM students follow the same courses. While TSM students cover all the principal areas of music studied by single honor students, the workload is less than that of the single honor programme. From the second year onwards, and especially in the third and fourth years, both courses offer a wide range of options. Students specialise in one of the following areas: composition, music technology, and musicology (the historical and analytical study of music); and in their final year they undertake a major project in that area. However, the course is designed so that students may also take subjects outside their specialisation.
Although instrumental or vocal studies are not part of the formal curriculum, a wide range of musical activities takes place on the campus. Practical courses in aural training and/or keyboard skills are available in each year.

The majority of subjects are based on the traditions and practice of classical (or art) music, from the medieval period to the present day. However, the department regularly presents lectures in other musical traditions, including jazz and popular music, and many students currently in the department come, primarily from one of those non-classical traditions.

One of the strengths of the Music courses in Trinity College is the commitment to small-group teaching. While some subjects, such as History of Music, are delivered as lectures to a large group, many subjects are taught in groups of ten students or fewer.

Is this the right course for you?
If you love music and want to understand it — for example, to know how it works, its history and development, how to write music, how to become a more informed performer — this is the course for you. Whether your interests are primarily academic or practical, your experience of this vast and rich subject will be greatly improved in depth and breadth.

As an academic discipline, music fosters independence of thought, creativity, critical and analytical skills, and intellectual awareness. You will also have plenty of opportunity to perform, conduct ensembles, and gain experience of arts administration. Because the course includes a wide range of options, you will be able to emphasise areas that interest you most.

The facilities in the Music Department include a recital room, practice rooms with pianos, an excellent and up-to-date suite of computer workstations that are used for teaching and study, a small music studio (plus more extensive, shared facilities elsewhere), excellent listening equipment, and a substantial lending collection of CDs (with a growing library of videos for students to borrow).

The staff of the Music Department have a wide range of expertise in composition, music technology and musicology. They are here to help you in your exploration of a subject that they chose because they, like you, love it.

As a student at Trinity College you will have access to the largest research library in Ireland. It is also by far the largest and best-equipped library for music. In addition to its general holdings of books and music, it houses an extensive listening collection of compact discs.

Course content

The Freshman years
The Junior Freshman (first) year is designed to ensure that you are fully competent in basic musical skills and provides an introduction to historical and analytical musicology, compositional techniques and music technology.

Subjects include:

- **Aural training** – using moveable Doh, Solfege or Solfá. The course will improve your basic musical skills in areas such as musical dictation, oral sight-reading, and score reading
- **Keyboard skills** – (taught in conjunction with aural training) will enable you to create harmony over a given figured bass, to play four-part harmony, and to transpose up or down a tone or semitone
- **Introduction to harmony** – an introduction to the writing of four-part harmony
- **History of music** – an introduction to the music of Baroque and early Classical periods in a broad cultural context (this forms part of a four-year programme of general music history), plus an introduction to research methodologies, and to the presentation and style in writing essays
- **Introduction to music analysis** – includes re-assessment of the elements of a musical text and the ways in which they come together to form increasingly large units
- **Music technology** – includes computer orientation, and introduction to MIDI protocol, audio signals and computer-based notation and sequencing, plus an introduction to contemporary music
- **Introduction to counterpoint** – the conventions of music notation and rudiments, leading to the study of Fuxian species counterpoint, which will enable you to acquire a command of basic polyphonic composition

In the Senior Freshman (second) year you will continue with the above subjects from the first year while beginning to explore your specialist area – either composition, or musicology, or music technology. You will also select a Broad Curriculum course (see p. 18 or [www.tcd.ie/Broad_Curriculum](http://www.tcd.ie/Broad_Curriculum)).

The Sophister years
In the Sophister (third and fourth) years study becomes more concentrated on your chosen specialisation. It is always possible to take options from other specialisations.

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

All students may opt to present a recital as 5% or 10% of their degree. In each year, sophister students are also offered an option in either aural training or in the playing of figured bass (using either piano or harpsichord). In recent years, other options have included:


Assessment
Most subjects are assessed by a combination of examination (at the end of the year) and continuous assessment.
Career opportunities
The employment record for Trinity College’s graduates in music is excellent. Recent graduates have developed careers in performance, in teaching and in administration. The strengths of the music technology and composition specialisations have led to successful careers as music producers for television, radio, or recording companies. Graduates are working as composers and/or arrangers, both in this country and in countries as diverse as the USA, Canada, Korea and England. Several graduates have established careers as conductors. Others have undertaken postgraduate research in Ireland and abroad. A smaller number have used the analytical and intellectual skills that these courses offer to build successful careers outside music: recent examples include medicine, law, financial investment, and public relations.

Further information
Anyone considering studying music is welcome to visit the department, in order to sit in on lectures, or to speak to members of staff and to speak to current students. To make an appointment, contact the Music Executive Officer: +353 1 896 1120; musicsec@tcd.ie (office hours: 1000–1630, Mondays to Fridays).

Full details of the courses in Music, of the staff and of the curriculum can be accessed via the Music Department’s web site: www.tcd.ie/Music
Tel: + 353 1 896 1120

Graduate Profile

Claire Duff, Baroque and Classical Violinist

I graduated from TCD in 1998 with a higher honours degree in Music and French. While I wanted to become a violinist, I was also very interested in academia and was keen to obtain a university degree and experience university life before studying performance at a conservatory. I chose Trinity because of the excellent reputation of the music and French departments and the historic and vivacious atmosphere of the university.

While at Trinity I became interested in early music and it was through the encouragement of the lecturers that I decided to specialize in this field. I studied baroque violin at the Royal Academy of Music London, receiving distinction in the performance diploma and I later obtained a Masters in performance at the Conservatorium van Amsterdam. I am based in London as a free-lance period instrument specialist, recording and touring with such orchestras as the English Concert and English Baroque Soloists. I also work as soloist, chamber musician and leader (of the Irish Baroque Orchestra, The Kings Consort and English Touring Opera).

I learnt invaluable analytical and research skills at Trinity but most importantly the degree inspired me and challenged my way of thinking, enabling me to think more independently.

I would recommend anyone who wants to have their ears opened, their minds challenged, their outlook broadened to study music at Trinity.
Music education

**COURSE CODE:** TR009  
**PLACES 2007:** 10  
**POINTS 2006:** 430  
**DEGREE AWARDED:** B. Mus. Ed.

This is a restricted entry course.

Applications MUST be submitted by 1 February of the proposed year of entry. Applicants will be required to attend an entrance examination, provisionally scheduled for 29 March 2008.

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

**GARDA VETTING:**  
Students will be required to undergo Garda vetting. See p. 11 for further details.

**See also:**  
TR002: Music, p. 76  
Education, p. 45

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**Course overview**

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

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

**Is this the right course for you?**

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

**Course content**

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

There are approximately eighteen hours of lectures per week, comprising Music, Education and complementary History.

**Music courses**

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

**Education courses**

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

**History**

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

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

**Assessment**

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

**Career opportunities**

While most of the students go on to teach - usually in schools, but also to instrumental teaching, some use the Degree as a general Arts qualification and go on to work in areas such as Arts Administration, Library work, Music Therapy and Music Technology. Many students take postgraduate courses - either in related areas such as those just mentioned, or in musicology, performance, or in a range of other areas.

**Further information**

[www.tcd.ie/](http://www.tcd.ie/Education/courses/bmused.php)  
[conservatory.dit.ie/bmused.php](http://conservatory.dit.ie/bmused.php)  
[www.riam.ie](http://www.riam.ie)
Near Eastern and Jewish studies

COURSE CODE: TR001 (TSM)
PLACES 2007: 10
POINTS 2006: 480-550
DEGREE AWARDED: B.A.  
TSM points: See note on p. 12

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

For subjects that combine with Near Eastern and Jewish studies see p.30.

See also: TR001/008: Religions and theology, p. 88  
Theology, p. 98

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

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

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

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

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

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

- The Near-East, Jewish origins, and the Bible  
  This examines the social, political and economic history of the ancient Israelites, the changes that took place after the Babylonian exile and in the Hellenistic period, and the struggle to preserve religious customs and national independence.

- Introduction to Islamic civilisation  
  This examines the historical origins of Islam and provides an introduction to Islamic theology and law. Topics examined include the Arab conquest of the Middle East and North Africa, the formation of Islam’s literary tradition (the Quran), the traditions about Mohammed (the Hadith), early Islamic institutions, and early Islamic art and architecture.

In the second and third years students explore various aspects of Jewish and Islamic history and culture in greater detail. Senior Freshman (second year) and Junior Sophister (third year) courses examine fundamental principles of the biblical tradition, deal with Judaism in the Persian, Hellenistic and Roman periods, and explore the Jewish Diaspora experience, as well as Jewish and Islamic history. It is also possible to take courses in biblical Hebrew or Greek.

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

- Jewish and Christian identity and interaction in the Roman world  
- The Jews of Egypt  
- Nationalism and archaeology in the Middle East  
- Modern Islamic thought  
- Advanced Hebrew or Greek  
- Messianism, Jewish and Christian  
- Biblical narratives and popular culture

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

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

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

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

Further information
www.tcd.ie/Religions_Theology/herzogcentre  
Tel: + 353 1 896 1297
Philosophy

COURSE CODES: TR005 TR001 (TSM)
PLACES 2007: 17 43
POINTS 2006: 400 430-550
DEGREE AWARDED: B.A.

TSM points: See note on p. 12

Philosophy may be studied as a single honor course (TR005), within the Two Subject Moderatorship programme (TR001), in the Philosophy and Political Science programme (TR014) and in the Philosophy, political science, economics and sociology (TR015) programme.

In TR005 Philosophy is studied for four years. This specialisation allows for a breadth of interests which can only be acquired by studying the thought of both the present and past ages.

TR001 (TSM) Philosophy cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. Both subjects are normally studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

See p. 30 for a list of the subjects with which Philosophy may be studied.
See also:
TR014: Philosophy and political science, p. 82
TR015: Philosophy, political science, economics and sociology, p. 83

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 exists and what it means to be (ontology); and what are the correct principles of reasoning (logic). It is generally agreed that philosophy is a method, rather than a set of claims, propositions, or theories. Its investigations are, unlike those of religion or superstition, wedded to reason, making no unexamined assumptions and no leaps based purely on analogy, revelation, or authority. In Greek, “philosophy” means “love of wisdom.” Philosophy is based on rational argument and appeal to facts. The questions addressed by philosophy remain the most general and most basic, the issues that underlie the sciences and stand at the base of a world-view.

Course overview

In all cases the purpose of the Philosophy course is to give you a solid, scholarly grounding in the classical texts which form the history of western philosophy, and are one of the formative influences on western culture. Studying the fundamentals of both formal and informal reasoning will enable you to think independently.

Is this the right course for you?

If you are interested in questioning society’s basic assumptions and in analysing the moral, political, aesthetic and religious questions lying at the heart of our culture in an articulate manner you will find this a stimulating and challenging course.

Course content

The Freshman years

In the first two years, called Junior Freshman (JF) and Senior Freshman (SF), you will study foundation courses in the history of philosophy, as well as engage with certain fundamental philosophical problems such as the debates about free will and determinism, the nature of morality, the nature of language, the existence of God, logic and the scope and limits of human knowledge.

In the TSM programmes where philosophy is studied with another subject there are approximately five hours of classes per week; with double that for the single honor programme.

The Sophister years

In the final two years, called Junior Sophister and Senior Sophister, you are able to set your own syllabus by selecting courses from a reasonably wide choice including political philosophy, ethics, philosophy of religion, philosophy of mind, among others. In this way you can specialize in the areas of philosophy you have found most interesting and most suitable to your skills.

Assessment

Assessment is by means of both essays and formal examinations with equal importance given to both. In the Senior Sophister year you will research and write a dissertation.

Career opportunities

In the recent past graduates of philosophy have worked in areas as diverse as accountancy, academic teaching, journalism, law, T.V. reporting and research, film making, banking, computing and advertising. Each year some graduates also opt to pursue a research career beginning with postgraduate study in Ireland or abroad.

Did you know?

George Berkeley (1685-1753), who has a permanent place in any list of the great philosophers, attended Trinity College. In addition, the political philosopher, Edmund Burke (1729-1797), inaugurated the College debating society while still a student at Trinity.

Trinity is the only university in Ireland where philosophy can be taken as a degree course on its own.

Further information

www.tcd.ie/Philosophy/teaching/undergrad.htm
Tel: + 353 1 896 1529
Philosophy and political science

COURSE CODE: TR014
PLACES 2007: 10
POINTS 2006: 495
DEGREE AWARDED: B.A.

See also:
TR001: TSM (joint honor programme) Philosophy in combination with one other subject. For subjects that combine with philosophy see p. 30
TR005: Single honor in philosophy, p. 81
TR012: History and political science, p. 62
TR015: Philosophy, political science, economics and sociology, p. 83
TR081: BESS, p. 32

Course overview
The study of Politics has been associated with Philosophy since the time of the ancient Greeks. The many direct and indirect interdisciplinary links make philosophy and political science an attractive and logical combination, with the study of each subject adding depth to the study of the other. As a student on this programme, you will take both subjects for the first three years. In your fourth year you will have the option to concentrate exclusively on either subject, or continue with both.

Is this the right course for you?
Yes, if you are willing to develop an original and creative way of thinking and are open to learning more about the political and economic development of societies.

Course content
In the first three years you will take approximately five courses which will each require attendance, on average, of two hours of lectures and one tutorial per week. In the Senior Sophister year there is a reduction in the number of courses required to allow greater depth of study and more independent work.

The Sophister years
In the final two years, called Junior Sophister (JS) and Senior Sophister (SS), you are able to set your own syllabus in Philosophy by selecting courses from a reasonably wide choice including political philosophy, ethics, philosophy of religion, philosophy of mind, among others. In political science you can choose from courses covering Irish politics, American politics, contemporary political theories, comparative political institutions, theoretical analysis of political parties, or the politics of international relations. In both subjects small group teaching is an important aspect of the sophister years and, should you decide to specialise in either Philosophy or Political Science in the final year, you will have the opportunity to research and write up a dissertation on a topic of your choice.

Assessment
Courses are examined by a combination of continuous assessment and formal examination.

Career opportunities
Philosophy and political science is a particularly useful preparation if you want to become involved in public service, public affairs or the media, but the skills you attain can also be applied in many areas of research, management and communication.

Further information
www.tcd.ie/Philosophy/teaching/undergrad.htm
www.tcd.ie/Political_Science/prospective_undergrads/index.html
Tel: +353 1 896 1529/1651
**NEW COURSE**

**Philosophy, political science, economics and sociology**

**COURSE CODE:** TR015  
**PLACES 2007:** 15  
**POINTS 2006:** n/a  
**DEGREE AWARDED:** B.A.

**SPECIAL ENTRY REQUIREMENTS:**
- GCSE: Grade B Mathematics

**See also:**
- TR001: TSM, p. 29
- TR005: Philosophy, p. 81
- TR012: History and political science, p. 62
- TR014: Philosophy and political science p. 82
- TR081: BESS, p. 32

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**Course overview**

The aim of this degree is to provide a coherent and integrated introduction to the study of the social sciences and philosophy. It brings together some of the most important approaches to understanding the social and human world, developing skills for a whole range of future careers and activities. The idea behind the programme is that to understand social and human phenomena one must approach them from several complementary disciplinary directions and analytical frameworks. By allowing a gradual specialisation over the course of the four-year degree programme, students are assured of obtaining an excellent grounding in one, or at most two, of the disciplines which make up the degree.

In the first three years you take six courses with approximately three teaching hours per week in each. In the final year there is a reduction in the number of courses taken to recognise the greater commitment to independent work.

**Is it the right course for you?**

This course will appeal to students who are excited about the challenges of understanding the way societies are organised, governed and create wealth drawing on the methods and insights of philosophical inquiry. If you are puzzled about the ways our world is structured and have a desire to change it, then this may well be the course for you.

**Course content**

**The Freshman years**

In the junior Freshman year you will take all four subjects: economics (including mathematics and statistics), philosophy, political science and sociology. In the Senior Freshman year you choose to continue three of the subjects and could, for example, take courses ranging from the economy of Ireland to the history of philosophy to West European politics to an introduction to social research.

**The Sophister years**

In the Junior Sophister year you take two of the four subjects and in the Senior Sophister year you may take two subjects or choose to specialise in only one. Students pursuing the equivalent of single honor programmes in their final year will be able to pursue an undergraduate dissertation, and all fourth year courses have elements of project work intended to help develop research skills and the skills of independent enquiry.

**Assessment**

Courses are examined by a combination of continuous assessment and formal examination.

**Career opportunities**

The range of disciplines to which students are exposed in this degree give you the insights and competencies to pursue careers in a variety of areas including public administration, teaching, journalism, media, law and management.

**Did you know?**

This degree programme is unique in Ireland in offering a dedicated introduction to the social sciences and philosophy.

**Further information**

[www.social-phil.tcd.ie/Undergraduate.php](http://www.social-phil.tcd.ie/Undergraduate.php)  
Tel: +353 1 896 2499
Political science

COURSE CODES: TR081 TR012 TR014 TR015
PLACES 2007: 216 19 10 20
POINTS 2006: 475* 500 495 N/A

Political science may be studied through four degree programmes: TR081 BESS, TR012 History and Political Science, TR014 Philosophy and Political Science, and TR015 Philosophy, political science, economics and sociology. See p. 83 for details of TR015.

In TR081 Political science is studied with other subjects for the first three years and either singly or jointly in the final year. The other subjects that may be combined with Political science in BESS in the later years are Business, Economics and Sociology.

In TR012 and TR014 Political science is studied with History or Philosophy respectively for the first three years and then either exclusively or combined in the final year.

What is Political science?

Political science is the field concerning the theory and practice of politics and the description and analysis of political systems and political behaviour. Politics affects us all in our daily lives. It’s easy to think of issues that we all have opinions about. Should government tax the rich to try to achieve greater equality? Should it introduce ‘green taxes’ in order to protect the environment? Should third-level students have to pay fees? Should abortion be legalised? Should the amount of money the EU spends on the agricultural sector be cut back drastically? How high a priority should third world aid be? All of these questions will be decided through the political process.

The study of politics as an academic subject involves, among other things, thinking about how these decisions get made. If it’s not possible to keep everyone happy when some issue has to be decided, whose views prevail and why? If governments do not always make what seems to be the most ‘rational’ decision on economic policy or some other issue, why not? How much say do ordinary people have in policy-making, and is it feasible to make the decision-making process more open? Can governments do pretty much what they want, or are they so constrained by other actors such as interest groups, the courts, the European Union, the constitution, and the sheer pressure of events, that in practice they have very little freedom of manoeuvre? Questions such as these are at the heart of the study of politics.

And, taking a step back from the debates of contemporary politics, political theorists ponder more fundamental questions, to do with normative issues - the ‘should’ questions - rather than ones that can be resolved by evidence. These days, pretty much everyone is in favour of justice and democracy - but what do these terms mean? If a society is to be run justly, what would this entail? Such topics have been discussed since the time of the ancient Greeks.

Is this the right course for you?

Politics in the modern world touches everybody in nearly every aspect of their life. If you want to raise your knowledge beyond the level of public affairs the study of political science will give you the necessary tools.

Course content

See individual course descriptions for TR081, TR012, TR014 and TR015.

Assessment

Courses are examined by a combination of assessed essays and formal examination. In the Senior Sophister year you will have the opportunity to research and write up a dissertation on a topic of your choice.

Normally, each course has two hours of lectures and one tutorial per week. Fewer lecture hours are required in the Senior Sophister year to allow time for more independent work.

Study abroad

The Department of Political Science is a partner in Socrates exchanges with universities in France, Poland and Spain. Students have the option to go abroad for all or part of their Junior Sophister (third) year.

Career opportunities

There are careers for which a demonstrated interest in politics is a definite plus and gives you a real head start. Journalism, other kinds of media work, the civil service, public relations, anything in business that requires knowing how government works, work in international organisations such as the EU or a not-for-profit organisation, all come into this category. A demonstrated knowledge of how the world works is obviously an asset for many types of career. An increasing number of graduates go on to do further study by means of postgraduate work. And, with a Politics degree, you could even get elected as a TD!

Did you know?

The Political science department in Trinity is one of the most highly-rated in Europe. This means that students are taught by some of the top researchers in Europe, enthusiasts for their subject who bring to their students not only the accumulated wisdom of the wider political science community but also the fruits of their own cutting edge research.

Further information

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

COURSE CODES: TR006 TR001 (TSM)
PLACES 2007: 31 17
POINTS 2006: 545* 545*-550
DEGREE AWARDED: B.A.
TSM points: See note on p. 12

TR006 – Psychology is a single honor course where psychology is read almost exclusively for four years.

TR001 (TSM) – Psychology cannot be studied as a single honor course. It must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. Both subjects are normally studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

For subjects that combine with psychology see p. 30.

Single honor and TSM students follow the same courses. However, while TSM students cover all the principal areas of psychology, the workload is less extensive than that of the single honor programme.

What is psychology?
Psychology is the scientific study of human behaviour and mental processes. Although classified as an arts course, psychology has many of the features of a science course – practical work, statistical description and analysis of data and courses on the underlying physiology of the human brain, for instance. These are in addition to the more familiar psychological topics such as human development, perception, learning, motivation, cognitive processes, individual differences and social psychology.

There are five thematic areas in psychology:
Biological, Cognitive, Developmental, Personality and individual differences, and Social psychology.

Is this the right course for you?
Psychology is a rigorous, fascinating and demanding field of the life sciences. If you are interested in the factors influencing human thinking, feeling and behaving, as individuals and in groups, you will enjoy this course. The School is committed to excellence in education and training at all levels, and aims to offer a knowledge base and a set of skills that not only equip students for the many careers that exist in psychology, but also prepare students intellectually for other careers. Psychology is a branch of science that demands clear, rigorous thinking, numeracy and the ability to define, study and solve problems in complex, changing settings. Psychology educates and trains students to be aware of the factors influencing human thinking, feeling and behaving, as individuals and in groups. Such abilities are highly transferable to many different spheres of life. Psychology is also an applied science that deals with how people act and behave in the real world. It provides support for families in their social life and work, though clinical and counselling interventions.

Course overview
The course is designed to develop a wide knowledge of the concepts, principles, theories and research methods of contemporary psychology; to develop skills of analysis and synthesis, research design, statistical description and evaluation, problem-solving and computer use; to provide practice in the design, execution, reporting and assessment of research and to develop competence in group work, communication and presentation skills and self-assessment. This preparation is designed to cultivate a high level of competence in scholarship and research, enabling the successful graduate to proceed directly to advanced postgraduate work, professional training or a productive career.

Each academic year requires a minimum of 1,200 hours of student time. During lecture term, approximately 12 hours per week are spent in supervised study such as lectures, practicals and tutorials.

The Freshman years
The Junior and Senior Freshman (first and second) years provide a broad foundation on which more advanced course work is built in the Sophister (third and fourth) years. In addition there is a Practicals, Methodology and Statistics course which develops research skills in a systematic fashion.

Junior Freshman (first year) courses
- Practicals, methodology and statistics
- Introduction to psychology
- Social psychology
- Communication and language
- Perception
- History of psychology
- Introduction to psychometrics/qualitative methodology
- Psychological disorder
TSM students take the first four courses.

Single honor students take all courses and in addition select a course from the Broad Curriculum options (see p. 18 or www.tcd.ie/Broad_Curriculum).

Senior Freshman (second year) courses
- Practicals, methodology and statistics
- Developmental psychology
- Social psychology
- Perception
- Introduction to psychometrics/qualitative methodology
- Personal and career development
- Communication and language
- History of psychology
TSM students take the first five courses, while Personal and Career Development is an optional course.

Single honor students take all courses and in addition select a course from the Broad Curriculum options (see p. 18 or www.tcd.ie/Broad_Curriculum).

**Practicals, methodology & statistics course**
The practicals course covers the methodology and statistical analysis of psychological research and runs throughout your first two years. It will enable you to understand the different research methodologies (qualitative and quantitative) upon which psychology is based and will prepare you for planning, conducting and communicating your own research. Each of the other courses contributes to the practicals course, so you get hands-on experience of carrying out different types of research. For example, in conjunction with developmental psychology, you may be asked to conduct an observational study task. Other practicals concentrate on statistical description and analysis and key research-related skills, such as literature searching.

**Tutorial programme**
The tutorial programme runs through part of the Junior and Senior Freshman (first and second) years. You will be assigned to a small group of three or four people and will meet regularly with an academic tutor. The focus here is to build the skills required to write essays, to develop an attitude of scepticism and to develop independent, critical thinking.

**The Sophister years**
By the Junior Sophister (third) year you will have identified areas within psychology that are of particular interest to you and will have the opportunity to develop these interests by choosing courses from a series of advanced course options. These optional courses will allow you to gain a deeper understanding of the various branches of psychology and the different ways in which research is carried out. The courses you select may also help you to make decisions about your future career, if it is to be in psychology.

Junior Sophister Single honor students take six optional courses from among the five thematic areas listed below, while TSM students (majoring in psychology) take four optional courses in their Junior Sophister Year. Both groups take an additional advanced Practicals, Methodology and Statistics course.

Junior Sophister TSM students who finish psychology in third year (minoring in psychology) take six optional courses only.

All Senior Sophister (fourth) year students take five optional courses (as well as a Theoretical Issues in Psychology course and an Advanced Academic Skills Tutorial). On completion of the Sophister years, students must have taken at least one module from each of the five specified thematic areas.

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<th><strong>COGNITIVE</strong></th>
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<tbody>
<tr>
<td>Neuropsychiatry,</td>
<td>Rationality and reasoning</td>
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<td>development and ageing</td>
<td>Creativity and imagination</td>
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<td>Behavioural neuroscience</td>
<td>Memory, synaptic plasticity and the brain</td>
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<td>Cross-modal cognition</td>
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<td>Clinical and experimental neuropsychology</td>
<td>Neuroimaging of cognitive function</td>
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<td>A cognitive-neuroscience approach to addiction</td>
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<td>Thinking, judgement and decision-making</td>
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<td>Culture and health</td>
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<td>The social self: theory and measurement</td>
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<td>Language and language disorders</td>
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<td>Organisational psychology</td>
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<td>Human sexuality</td>
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<td>Qualitative research methods</td>
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<td>Psychology of criminal behaviour</td>
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<td><strong>PERSONALITY AND INDIVIDUAL DIFFERENCES</strong></td>
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<td>Clinical cases</td>
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<td>Advanced individual differences</td>
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<td>Embodiment</td>
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<td>Human sexuality</td>
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<td>Health psychology</td>
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<td>Clinical psychology and people with intellectual disability</td>
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<td><strong>DEVELOPMENTAL</strong></td>
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<td>Child development in changing family contexts</td>
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<td>Neuropsychiatry, development and ageing</td>
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<td>Qualitative research methods</td>
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<td>Language and language disorders</td>
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<td>Models of development and mental health</td>
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<td>The social self: theory and measurement</td>
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<td>Applied issues in developmental psychology</td>
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As a Junior Sophister (third) year student you will carry out a group research project on an important community-based psychological issue. This will give you experience of working as a team member, of working with a range of research methodologies in psychology, and of presenting psychological research. A series of seminars in the Junior Sophister year in which staff talk directly about their own research gives you a first-hand account of the research process.
In the Senior Sophister (fourth) year a large part of your workload involves carrying out an independent research project under the supervision of a member of staff. Typically, the topic you choose to investigate will coincide with your supervisor’s own research work, giving you all the benefits and support of an active and accessible research group. Many students report that this project, while challenging, is one of the most rewarding parts of the course.

**Assessment**
A combination of end-of-year written examinations and continuous assessment is used. In your final year, you will also submit a report of your research project.

**Study abroad**
Second and third year undergraduates are eligible to apply to study for one or more terms (students usually go for a whole academic year) in certain other European Psychology Schools, with travel, and where appropriate, some subsistence funding provided by the EU SOCRATES fund. There are no basic course charges to be paid abroad. Assessment is carried out in the host (i.e. foreign) institution and is accepted by TCD as if students were examined here. This School has bilateral agreements with several European universities where arrangements have been made for students to study.

**Career opportunities**
Approximately 50% of psychology graduates proceed to a career in professional psychology through professional training or higher education in areas related to psychology. However, the advanced understanding of human behaviour and experience and the wide range of skills developed during the course have allowed students to enter many professions, ranging from management, marketing, advertising and accountancy, to journalism, broadcast media, teaching and recruitment.


**Did you know?**
As well as offering high quality teaching, Psychology collaborates with a number of other disciplines through the Children’s Research Centre, Neuroscience Institute and the Aerospace Psychology Research Group (all based on Trinity’s Campus). Students are encouraged to become actively involved in our ongoing research, particularly in the third and fourth years of College.

See www.tcd.ie/psychology

**Psychology degree and professional qualifications**
The single honor degree and the TSM degree (where the student majors in psychology) both confer eligibility for graduate membership of the Psychological Society of Ireland. TSM students for whom psychology is the minor subject (studied for only three years) are not eligible for graduate membership of the Society.

Progression into the profession of psychology, however, requires further training at postgraduate level. For example, clinical psychology typically lasts for 3 years, for counselling and health psychology 2 years and for occupational psychology 1 year.

**Further information:**
www.tcd.ie/Psychology
Tel: +353 1 896 1886
Religions and theology

Course overview

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

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

In the first year you take a range of introductory courses on Judaism, Christianity and Islam. Each of these religions is studied in both its ancient and its modern setting. From the second year on, you choose from a range of courses depending on your individual interests. You may decide to take courses that are more historical in nature (examining such things as the origins of Judaism or Celtic Christianity), courses that study the foundation texts of religions (for example, the tradition of the Hebrew prophets or the writings of Paul of Tarsus), or courses that wrestle with more philosophical issues (such as the existence of God, the relation of science and religion, the ethics of genetic engineering, or Christian engagement with other world religions).

In the second, third, and fourth years you will also have the option to learn biblical Hebrew or Greek. In your final year, you will be encouraged to do some in-depth research as you prepare a dissertation on a topic of your own choosing.

Is this the right course for you?

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

Course content

The Freshman years

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

Junior Freshman (first) year courses:

- **The Near East, Jewish Origins, and the Bible**: the social, political and economic history of the ancient Israelites, the changes that took place after the Babylonian exile and in the Hellenistic period, and the struggle to preserve religious customs and national independence.
  - Topics include: archaeological discoveries, early Jewish writings, the Bible in its social and historical setting, temples and worship, gods and goddesses of Israel and its neighbouring cultures.

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

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

- **An introduction to the traditions of Christian thinking about God, the world, and human life**: an historical survey of the philosophical and theological developments within Christian theology from the Patristic era through the Middle Ages and the Reformation to the modern period.

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

- **Introduction to Islamic civilisation**: the historical origins of Islam and an introduction to Islamic theology and law.
  - Topics examined include the Arab conquest of the Middle East and North Africa, the formation of Islam’s literary tradition (the Quran), the traditions about Mohammed (the Hadith), early Islamic institutions, and early Islamic art and architecture.

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

- the early history of Israel
- Paul and the development of early Christianity
- Medieval Judaism and Islam
- arguments for and against the existence of God
- the relation between modern science and religious belief
- medical ethics, including that of human cloning
- Judaism from the time of Alexander the Great to the Roman period
Students in the second year may substitute a Broad Curriculum course (such as Film Studies) for one of their half-year courses. See p. 18 or www.tcd.ie/Broad_Curriculum

**The Sophister years**
Students have a wide variety of subject choices in the Junior and Senior Sophister (third and fourth) years. These include:
- Prophecy in Israel
- Early Christianity and its literature (the Gospels)
- Judaism and Islam in the Medieval world
- Jewish and Christian identity and interaction in the Roman world
- The Reformation and the Enlightenment in Europe and Ireland
- Jewish identity in the modern world
- Christologies (ways of understanding Jesus)
- Christianity and world religions: the challenge of the claims of Buddhism, Hinduism and other world faiths to Christianity
- Ethics: philosophical and theological
- Justice, forgiveness, and atonement

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

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

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

**Further information**
www.tcd.ie/Religions_Theology
Tel: + 353 1 896 1297

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**Russian**

**COURSE CODE:** TR001 (TSM)

**PLACES 2007:** 36

**POINTS 2006:** 350* - 510*

**DEGREE AWARDED:** B.A.

**TSM points:** See note on p. 12

**SPECIAL ENTRY REQUIREMENTS:**
- Leaving Certificate: HC3 in a language other than English
- Advanced GCE (A-Level): Grade C in a language other than English

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

For subjects that combine with Russian see p. 30.

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

**See also:**
- TR024: European studies – Russian with French/German/Italian/Polish or Spanish, p. 49
- TR086: Business studies and Russian, p. 35

**Why study Russian?**
Russian is the native language of nearly 140 million people and is one of Europe’s most important languages. Today Russia is a rapidly changing society, in which the adoption of a market economy and principles of openness have created unprecedented opportunities for work, study and travel for Trinity students and graduates. Russian writers, musicians and artists have made a considerable contribution to European culture; Russian history has helped shape Europe as we know it today: exploring Russia’s past and present helps understand the interaction between Europe’s eastern and western traditions.

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

**Course content**
Nearly all students start Russian from scratch with an intensive first year language course. Special provisions can, however, be made for students with prior knowledge of Russian (heritage speakers, near-native speakers or those who have an entrance qualification in Russian).
In addition to language study, you will take courses on aspects of Russian literature, Russian history and Russian culture, society and politics. In later years, you will also have the option to study Slavonic linguistics and the Polish language.

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

- **Russian language**: develops fluency in reading, writing, speaking and listening
- **Russian literary and cultural studies**
- **Russian area studies**

In their first two years there are approximately ten hours of class-time divided equally between language work and literary, cultural or area studies.

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

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

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

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

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

**Did you know?**
Trinity College is the only university in Ireland where you have the opportunity to study Russian to degree level.

**Further information**
[www.tcd.ie/Russian](http://www.tcd.ie/Russian)
Tel: + 353 1 896 1896
# Social studies (social work)

| COURSE CODE: | TR084 |
| PLACES 2007: | 30 |
| POINTS 2006: | 480 |
| DEGREE AWARDED: | B.S.S. |

**GARDA VETTING:**
Students will be required to undergo Garda vetting. See p. 11 for further details.

## Course overview

This four-year programme is the only degree in Ireland which takes students straight from school through to social work qualification. It aims to recruit a very diverse student body.

This degree offers you the advantage of combining an honors degree in social studies (B.S.S.) with the Irish professional social work qualification, the National Qualification in Social Work (NQSW). It is an intensive programme which aims to help you become a reflective and proactive social worker who will make a significant contribution in the health and social services.

### Is this the right course for you?

Social studies is the right course for you if you know you want to work in one of the caring professions, think social work is the one closest to your interests, and believe you have the personal qualities and motivation necessary for this line of work. Potential applicants are advised to find out what social workers do before they apply.

## Course content

This course introduces you to a wide range of social science subjects in the Junior Freshman (first) year, and then increases the number of social work subjects in the following three years. Teaching methods are varied and interactive and draw on your personal and practice experience.

### The Freshman years

Junior Freshman (first year) subjects include introductions to social work, psychology, social policy, sociology, economic policy and political science. Optional courses in either French or German are also available (see p. 18). In first year, there are approximately 12-14 hours in lectures, 3-4 hours in tutorial classes and several hours in the library each week. If you have had no relevant practice experience before starting the degree, we ask you to do 30 hours (2-3 hours per week) volunteer work during first year to build your confidence and help you to apply what you are learning to a real world situation.

In Senior Freshman (second) year, core subjects are social work theory and practice, law for social workers, social policy, psychology and social research. The social work courses involve two field trips. In addition, you can either continue your language studies or choose one elective course from sociology, politics, or economics.

### The Sophister years

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

- Family and child care studies
- Social policy
- Sociology
- Mental health
- Equality issues
- Groupwork
- Human rights law
- Social work theory and practice, including counselling skills and practice workshops
- Broad Curriculum courses
  (see p. 18 or [www.tcd.ie/Broad_Curriculum](http://www.tcd.ie/Broad_Curriculum)).

An overview of international social work is also offered in second and third years.

**Assessment**
Assessment includes essays, case-studies, projects, examinations and placement reports.

**Professional practice**
In each of the four years you will have a placement in a different social service agency under the supervision of an experienced practitioner. These placements provide you with practice experience and an opportunity to apply and develop the skills and knowledge that you have acquired in College. Placements are arranged in settings such as health service community care teams, hospital social work departments, child and family centres, probation service, and community development projects. They account for approximately 50% of your course time (220 days) over the four years and take place during summer vacations in the Freshman years and mostly in term time in the Sophister years.

The first two placements can be spent overseas if you so wish (e.g.: Britain, North America, South Africa...). You are supported in your professional development by an individual social work course tutor who meets you regularly and visits you on placement from second year on.

**Career opportunities**
As a social studies graduate of the University of Dublin, you are eligible for immediate employment as a professionally qualified social worker in Ireland and internationally. You also have a good social science degree which would allow you to move into policy, media, research assistant 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.

**Sociology**

<table>
<thead>
<tr>
<th>COURSE CODES:</th>
<th>TR081</th>
<th>TR001 (TSM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLACES 2007:</td>
<td>216</td>
<td>59</td>
</tr>
<tr>
<td>POINTS 2006:</td>
<td>475*</td>
<td>420-550</td>
</tr>
<tr>
<td>DEGREE AWARDED:</td>
<td>TR001:</td>
<td>TR081:</td>
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<tr>
<td>B.A.</td>
<td>See p. 32</td>
<td></td>
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<tr>
<td>TSM points:</td>
<td>See note on p. 12</td>
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</tbody>
</table>

Sociology at Trinity may be studied through four different degree programmes: TR081 BESS (see p. 32), TR001, TR015 and TR083.

In TR081 (BESS) you take a foundation course in Sociology in the first year and then may choose to specialise in Sociology in later years either exclusively or along with Political science or Business.

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

See p. 30 for a list of the subjects that can be combined with sociology in TR001.

Both subjects are taught as separate disciplines but the combination can be very stimulating in unexpected ways. For example while sociology and (social) geography are quite closely related, some of our most successful students have combined sociology with disciplines such as Drama, English or French.

See also:

TR015: Philosophy, political science, economics and sociology
TR081: BESS, p. 32
TR083: Sociology and social policy, p. 94

**What is sociology?**
Sociology is the study of social life, social change, and the social causes and consequences of human behaviour. Sociologists investigate the structure of groups, organisations, and societies, and how people interact within these contexts. The discipline recognises that class, race, age and gender determine the path of an individual’s life in ways that become more clearly visible through the study of Sociology. Because sociology addresses the most challenging issues of our time, it is a rapidly expanding field whose potential is increasingly tapped by those who craft policies and create programmes.

**Course overview**
In all three programmes Sociology covers courses on a range of subjects including work and employment, science, technology and society, migration, development and globalisation, conflict resolution, family, gender and ethnicity, food and the environment, organisations and management, health and healing, language and popular culture.
Is it the right course for you?
If you want to understand the changes taking place in the world today, and you’re curious about people and society, then sociology is for you. As an area of university study, it includes numerous ways of describing and analysing society and investigating social change. Ireland and the world are currently experiencing rapid processes of social change. The old world is changing, but what will the new world be like, and how can we participate in its development? Sociology is foremost among the social sciences in its understanding of social change.

Course content
The Freshman years
The Junior Freshman (first year) comprises of foundation courses in Sociology, Political science and Economic Policy. In the Senior Freshman (second) year you study European societies and will undertake a project in observation or interviewing, and design a questionnaire.

The Sophister years
Investigation into and specialisation in substantive topic areas, and further emphasis on advanced analysis, research and presentation skills is provided in the Sophister (third and fourth) years. In your Junior Sophister (third year), you will continue the study of culture and society and carry out projects involving computerised analysis of both numerical data from surveys, and the verbal data which are the outcomes of recording interviews or conversations. The Senior Sophister year offers courses in social theory and researching society and a variety of substantive topic areas. You will have the opportunity to carry out your own independent research project from start to finish on a topic of your choice. Many students find this the most satisfying part of the whole four years. They also find it a great asset when talking to employers and applying for jobs.

Assessment
Courses are examined by a combination of continuous assessment and formal examination. Lectures and tutorials take up 6 to 10 hours a week, depending on the year.

Study abroad
Students may participate in full-year or half-year exchanges with universities in France, Italy, Germany, Sweden, Finland, and Denmark in their third year. Some of these universities offer their courses through English.

Career opportunities
Sociologists work in a wide variety of settings. Sociology graduates find that their broad training and appreciation of how society and people work means they can thrive in a career in the public service, community development, in social research in statutory or voluntary social service organisations, as university lecturers, in the media, or in business. Graduates are working for organisations as diverse as Goodbody Stockbrokers, the ESRI, the Abbey Theatre, the Department of Foreign Affairs and Enterprise Ireland. Careers range from industrial relations to marketing and from teaching to tourism.

Did you know?
Sociology is a leading participant in the Trinity Immigration Initiative and also specialises in research on science, technology and society, and globalisation, reflecting the integration of Ireland into a globalising world and the need to understand the processes and implications involved.

Further information
www.tcd.ie/Sociology
Tel: +353 1 896 2701
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.

Is this course right for you?

This course demands both academic and vocational qualities. It is particularly relevant to students intending to pursue a career in management, planning, research or evaluation within the social services, both voluntary and statutory, and both social and public policy areas.

Course content

The subjects studied include general social science disciplines such as economics and politics, and specialist areas such as family policy, welfare policy, criminology and the extent of poverty and inequality. The freshman (first two) years are more general and foundational in nature, while the Sophister years (three and four) will focus more specifically on sociology and social policy. A strength of the course is that explores these issues in a genuinely comparative context. Teaching methods include lectures, seminars and group project work.

The freshman years

In the first and second years you will take introductory courses in economics, politics, social policy, sociology, statistics, and law. You may also study either French or German as an optional subject (the numbers admitted to language courses are limited, with places determined on the basis of the grade achieved in the Leaving Certificate (or equivalent) examination).

The Senior freshman (second) year places greater emphasis on the areas of social policy and sociology, as well as the introduction of social research methods. You also have the choice of taking a complementary subject, such as psychology, or may continue your study of French or German.

In the freshman years, students take six courses, with typically two lectures and one tutorial per week for each course.

The Sophister years

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

- Social security
- Race and ethnic identity
- Comparative welfare systems
- Crime and punishment
- Issues for the Developing World
- Family policy
- Ageing societies
- Relations to nature and the environment
- Popular culture
- Work and management
- Use of language
- Gender and the position of women in society

Many of these courses deal specifically with Ireland and with European society. In the final year you will research and write a dissertation on a topic of your choice.

Assessment

A combination of continuous assessment and written examinations will generally be used.

Career opportunities

The range of employment opportunities in the area of social and public policy, planning and implementation is expanding all the time. Sociology and social policy is a particularly relevant degree for those interested in pursuing a career in the formulation of policy in the public service, community development and voluntary/non-profit sectors. The course provides a solid foundation for specialist postgraduate courses, including in the areas of social work and social research.

Further information

www.socialwork-socialpolicy.tcd.ie and www.tcd.ie/Sociology
Tel: + 353 1 896 2001
Spanish

COURSE CODE: TR001 (TSM)
PLACES 2007: 39
POINTS 2006: 400-510*
DEGREE AWARDED: B.A.
TSM points: See note on p. 12

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate  HC3  In a language other than English
Advanced GCE (A-Level)  Grade C  In a language other than English

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

For subjects that combine with Spanish see p. 30.
Alternatively, Spanish may be selected as one of the two languages studied in the European studies programme. Spanish can be studied ab initio (from beginner level) in both TSM and European Studies.

See also:
TR024: European studies – Spanish with French/German/Italian/Polish or Russian, p. 49
TR090: Business studies and Spanish, p. 35

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

Course content
Spanish at Trinity is taught by a variety of methods to equip you with a comprehensive range of skills in the accurate, fluent and sensitive understanding and use of the written and spoken language. If you are a beginner the teaching provided offers a realistic opportunity for you to reach the same standard within a year as those who have studied the language previously.

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

The Junior Freshman year
The primary focus of the Junior Freshman (first) year is to establish and consolidate your competence in understanding and using the Spanish language. Students studying Spanish ab initio (from beginner level) attend nine hours of classes per week, while non-beginners attend seven hours of classes.
The course covers four main areas:

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

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

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

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

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

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

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

Career opportunities
The main career opportunities are: teaching, journalism and the visual media generally, while some recent graduates have gained EU placements in Brussels.

A substantial proportion of students engage in further study, particularly Diploma and Masters’ courses in Interpreting and Translation. Ample opportunities exist in several universities, both in the U.K. and in Ireland, with Trinity’s new M.Phil. in Literary Translation proving popular. A steady stream of undergraduates have also chosen to pursue M.Litt. and Ph.D. research degrees at Trinity.

Further information
www.tcd.ie/Hispanic_Studies/pages/undergraduate.php
Tel. + 353 1 896 1257

Addiction Studies

PLACES 2007: 24
AWARD: Diploma

APPLICATION PROCEDURE:
This is not a CAO course. Students wishing to apply for admission are required to apply directly to the University. Completed applications must be returned in mid-April 2008 for entry to the academic year commencing in October 2008.

Application forms are available from:
Addiction Studies,
School of Social Policy and Social Work Room 3063,
Arts and Social Sciences Building,
Trinity College, Dublin 2
Tel: + 353 1 896 1163, Fax: + 353 1 671 2262
Email: addiction.studies@tcd.ie

GARDA VETTING:
Students will be required to undergo Garda vetting.
See p. 11 for further details.

The Government’s Free Fees Initiative does NOT cover this course. All students registered for Addiction Studies are required to pay tuition fees.

Course overview
Addiction Studies is a Level 7 special purpose award, characteristically taken by people already in service, that is, those working in the alcohol and drugs field with individuals, families or communities experiencing problems as a result of the use of alcohol or illicit drugs; those wishing to work in the field; and those who work in a range of relevant social fields, who wish to augment their knowledge and return to their workplaces with new learning and experience. The Diploma leads to enhanced professional competencies and specialised knowledge across a variety of areas.

This one-year course, run with the approval of the Minister for Health and the Department of Health and Children, consists of two terms of academic work together with a ten-week fieldwork placement.

Is this the right course for you?
Applications will be considered from those whose work brings them into contact with the problem of addiction – e.g. counsellors, social workers, probation officers, doctors, nurses and teachers for example – or from those who are involved in the administration of services or the formulation of policy in this area.

Course content
The academic aspect of this course includes teaching on a wide variety of subject areas relevant to addiction. There are approximately 20 hours of classes per week during academic term and 35 hours per week during placements.
The Addiction Studies programme consists of five modules:

- Theory and Practice of Addiction Counselling
- Addiction Policy
- Addiction Research
- Contemporary Issues – Disciplines
- Addiction Practice and Fieldwork Placement

The content of the course is divided into two sections – academic studies and skills training.

Academic studies include teaching from a variety of subject areas relevant to addiction, including psychology, pharmacology, sociology, criminology, psychiatry, social policy, law and social work.

Skills training focuses particularly on the development of students’ counselling and intervention skills in group work and individual and family counselling. It is based on classroom exercises using video equipment, on field experience, on placement briefings and debriefings, and on seminars and workshops.

Assessment

The award of the diploma is based on continuous assessment and satisfactory completion of a research project, a fieldwork placement and a placement practice study.

Career opportunities

Addiction counselling; drug and alcohol project work; education and prevention; youth work; community work; project management; policy development.

Further information:

www.socialwork-socialpolicy.tcd.ie
Tel: + 353 1 896 1163
Fax: + 353 1 671 2262
Email: addiction.studies@tcd.ie

Irish Sign Language Teaching

AWARD: Diploma

APPLICATION PROCEDURE:

This is not a CAO course. Students are required to apply directly to the Centre for Deaf Studies. Completed applications must be returned by 31st May 2008 for entry to the academic year commencing in October 2008.

Candidates will be selected by interview. Students are expected to have proficiency in ISL. All candidates will be required to attend an interview.

Information and application forms are available from:
Centre for Deaf Studies, University of Dublin, Trinity College
40 Lower Drumcondra Road, Drumcondra, Dublin 9
or via our website www.tcd.ie/slscs/cds

GARDA VETTING:

Students will be required to undergo Garda vetting. See p. 11 for further details.

See also:

TR804: Deaf Studies, p. 41
TR805: Irish Sign Language/English Interpreting, p. 68

The Government’s Free Fees Initiative DOES cover this course. Students registered for the Irish Sign Language Teaching may be eligible for inclusion in the scheme.

Course overview

Irish Sign Language Teaching is a two-year full-time course that includes regular teaching practice. There are 8 places offered on the course each year. It provides generic professional training for those who wish to teach Irish Sign Language. Central importance is given to the development of Irish Sign Language competence to the highest level and to the design and implementation of Irish Sign Language courses. Other course modules deal with such issues as sign linguistics, bilingualism, the sociolinguistics of signed languages, and Deaf people in society.

Is this course right for you?

We are committed to supporting and developing the teaching of Irish Sign Language to the highest levels and encourage you to join with us if you plan on teaching ISL. We use cutting edge technologies in teaching and learning and provide an environment that facilitates deaf students wishing to become teachers.

Supports include:

- Approximately 70 % of all lecturers at the Centre are Deaf and use ISL as their first or preferred language. In fact, many of our lecturers are graduates of the Centre for Deaf Studies (CDS).
- All classes in year 1 are delivered in ISL by fluent signers.
- Classes delivered by lecturers who are not fluent ISL signers are interpreted by professional, qualified interpreters.
- Deaf students can choose to present coursework and assignments in ISL (video recorded) or English (written). Examination guidelines apply.
- We also have mixed age classes and multi cultural groups and promote a challenging and fun atmosphere of learning.

Is this course right for you?

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- We also have mixed age classes and multi cultural groups and promote a challenging and fun atmosphere of learning.
Course content
The following modules will be taught in Irish Sign Language Teaching (subject to change) in 2007-8:

Year 1
- ISL (1-5)
- The Linguistics and Sociolinguistics of Signed Languages
- Perspectives on Deafness

Year 2
- Pedagogy: Teaching Practice, Teaching ISL as L1, Teaching Methods 1-3, Curriculum Planning (1,2), Methods of Assessment, Theories of Education
- Language Acquisition and Deafness
- ISL (6)

Assessment
The award of diploma is based on continuous assessment of course modules and teaching practice, as well as on a project in course design. A student whose teaching practice is considered unsatisfactory may, in exceptional circumstances, be allowed to undertake further practice. Students must achieve a grade average of 50% in teaching and assessment related modules in order to rise to the second year of the ISL Teaching course.

Career opportunities
There are increasing opportunities for qualified ISL teachers in Ireland. Freelance teachers work in a variety of settings including teaching adults ISL as a second language (VECs, universities, adult education courses, etc.). They also work as contract teachers for the Department of Education and Science teaching ISL as a first language to deaf and hard of hearing children and their families. Many graduates of CDS have taught ISL in Trinity College. Others have gone on to work for schools for the deaf or for organisations like the Irish Deaf Society, the National Association for Deaf People and the Civil Service’s Language Centre.

Did you know?
There are currently fewer than 50 trained Irish Sign Language teachers in Ireland.

Further information
Tel: +353 1 830 1252
Fax: +353 1 830 1211
Email: cdsnfo@tcd.ie
www.tcd.ie/slscs/cds

Theology

AWARD: B.Th.

APPLICATION PROCEDURE:
This is not a CAO course. Students wishing to apply for admission are required apply directly to the Church of Ireland Theological College. Completed applications must be returned by 1 July 2008 for entry to the academic year commencing in October 2008.

Information and application forms available from:
The Principal of the Church of Ireland Theological College, Braemor Park, Dublin 14.
Tel: +353 1 492 3506
Web: www.citc.ie

The Government’s Free Fees Initiative DOES NOT cover this course. Students registered for Theology will be required to pay tuition fees.

This professional degree course is conducted with the needs in mind of those who intend to enter the ordained ministry of the Christian church. Specifically, it is constructed to meet the needs of those who intend to offer themselves for ordination in the Church of Ireland or one of its sister churches within the Anglican Communion.

The structure of the course provides for both the academic and professional requirements of those seeking ordination. The course is taught jointly by the University of Dublin and the Church of Ireland Theological College (although provision exists for the participation of other institutions which may wish to be associated with the teaching of the course). The University provides the teaching of academic aspects of the course, and the Theological College undertakes the teaching of denominational aspects with the professional and practical skills.

There are three levels of award:
- Diploma in Theology (3 years)
- Bachelor in Theology (ordinary degree) (3 years)
- Bachelor in Theology with honors (4 years)

In the first three years of study for all levels the component courses are grouped under three headings:
- Theory (Academic training)
- Professional training
- Practical work

In the fourth honors year, the emphasis is on academic theology.

To be considered for admission to the course you will be required to satisfy the normal matriculation requirements of the University (see p. 9).
Engineering, Mathematics and Science

Chemistry with molecular modelling 101
Computer science 102
Computer science, linguistics and a language (French, German, Irish) 104
Engineering, with specialisations in:
   Civil, structural and environmental engineering 105
   Computer engineering 110
   Electronic engineering 111
   Electronic and computer engineering (joint programme) 112
   Mechanical and manufacturing engineering 113
Engineering with management 115
Human genetics 117
Management science and information systems studies (MSISS) 118
Mathematics 119
Medicinal chemistry 121
Physics and chemistry of advanced materials 122
Science, with specialisations in:
   Biochemistry with cell biology 123
   Biochemistry with immunology 126
   Biochemistry with structural biology 127
   Botany 128
   Chemistry 129
   Environmental sciences 130
   Genetics 131
   Geography 132
   Geology 133
   Microbiology 134
   Molecular medicine 135
   Neuroscience 136
   Physics 137
   Physics and astrophysics 138
   Physics and computer simulation 138
   Physiology 139
   Zoology 140
   Theoretical physics 141

Direct Entry (non-CAO) courses are available in:
Programme in Information systems 142
Chemistry with molecular modelling

COURSE CODE: TR074
PLACES 2007: 15
POINTS 2006: 405
DEGREE AWARDED: B.A.
SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate
HC3 Mathematics
HC3 In one of physics, chemistry, physics/chemistry or biology
Advanced GCE (A-Level)
Grade C Mathematics
Grade C In one of physics, chemistry or biology

See also:
TR071: Chemistry, p. 130
TR075: Medicinal chemistry, p. 121
TR076: Physics and chemistry of advanced materials, p. 122

What is molecular modelling?
Molecular modelling is the use of computer modelling to understand and explore chemistry. Advancements in molecular modelling have lead to an explosive growth in a range of applications. This course focuses on modelling the structure and reactivity of molecules and solids including:

- The simulation of the structure and properties of materials including organic molecules, semiconductors, catalysts, DNA, proteins, etc.
- The modelling of how electrons are arranged in materials and behave during chemical reactions
- Computational medicinal chemistry and drug design

Is this the right course for you?
The programme will suit you well if you want to obtain a chemistry degree but are also interested in learning to use molecular modelling to understand and solve chemical problems in a range of areas such as drug design and materials chemistry.

Course overview
The course is based on the Moderatorship in Chemistry (see p. 130).
Core components of the chemistry degree are taken along with special molecular modelling courses, practical work and project work.

The Freshman years
You will study the same foundation courses in chemistry and mathematics and one of biology or physics as students in the science course – TR071 (see p. 123). However, some of the experimental chemistry laboratory class time is spent in computer laboratories. Special lectures are given to introduce the concepts of molecular modelling to highlight applications.

There are approximately 19 hours of supervised study in lectures and tutorials and around 6 hours of laboratory time per week in the Freshman (first two) years.

The Sophister years
In the third and fourth years you will take core courses in chemistry with additional courses in molecular modelling including general molecular modelling, modelling protein structure, drug design, molecular dynamics, modelling in solid state materials chemistry.

In the Junior Sophister (third) year, about half of your laboratory class time is spent in computer laboratories performing computational experiments using molecular modelling.

As a Senior Sophister (fourth year student) you will undertake
a computational project typically from late September to mid December. This may be done in Trinity or in an academic or research laboratory abroad.

Assessment
You will be assessed by a combination of continuous assessment and end-of-year examinations.

Study abroad
The School of Chemistry has exchange agreements with a large number of other universities where students may carry out their final year research projects. Centres where students have completed their research projects in recent years include Vienna, Berlin, Madrid, Toulouse and Utrecht in Europe and McGill and Duke universities in North America.

Career opportunities
The degree is fundamentally chemistry based and so the opportunities available to regular chemistry graduates remain open (see TR071 - Chemistry p. 130). In addition the specially developed computational skills make graduates an attractive prospect for employers both within computing environments and in other professions. Career opportunities range from teaching and research to working in the chemical and pharmaceutical industries, one of the largest and fastest growing sectors of the Irish economy. Chemists also fit comfortably into management and business. Examples of industries where people are employed directly in scientific computing include: pharmaceutical (computational drug design), chemical (developing catalysts), materials chemistry (semi-conductors/magnetic materials), financial services and meteorology.

Further information
www.tcd.ie/Chemistry/teaching/molecular/index.php
Email: dmcdonll@tcd.ie
Tel: + 353 1 896 1456

What is computer science?
Computer science is the study of everything to do with computers, from the pioneering theoretical discoveries on logic and calculation in the nineteenth and twentieth centuries through to the development of very early computers in the middle of the last century right up to the present day, when computers have become both powerful and commonplace. Computers have revolutionised almost every aspect of science, business and commerce in the past fifty years, and are rapidly doing the same in communications, in the arts and entertainment industries. Computers are instrumental in the protection of the environment and are central to the world’s financial systems. Computer power doubles roughly every 18 months, in accordance with ‘Moore’s Law’. Computer communication capacities advance at a similar rate.

Thus, as their capabilities increase, computers continue to push into new areas of application, and computer science pushes into new areas of research. Computers need software – programs that instruct the computers how to carry out tasks. New uses of computers need new ideas, new software, and new tools to be developed.

Is this the right course for you?
Computer Science at Trinity is a challenging and exciting course. You will graduate with a thorough grounding in computer science, and this will take considerable effort on your part. 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. As always, proficiency in mathematics is required and an ability to communicate clearly is very useful.

If you are interested in 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, and we will take you far beyond the layperson’s understanding of computer science.

Why study Computer science at Trinity?
Trinity’s Department of Computer science is the oldest in Ireland, being established in 1969, and over almost 40 years has developed a close association with leaders in the computer sector throughout Ireland, in both the private and public sectors. The Department has earned a strong international reputation in education and in research, and our degrees are recognised throughout the world.
Course content
This course provides you with a broad and rigorous grounding in computation and computer systems, starting with fundamental topics in mathematics, logic, electrical theory, programming, computer systems, the role of computers in society and culminating in advanced topics such as artificial vision, high performance graphics, intelligent systems, hardware system design and other topics from the research areas our lecturers are pursuing. You will also be able to select from various subject options in your final year.

The Freshman years
The first two years — the Junior Freshman and Senior Freshman years — are the foundation of the course. You will study mathematics, digital hardware, networking concepts, programming languages, low-level programming, information management, together with modules on computers in society and a ‘broad curriculum’ module on a subject outside the general area of computer science. Individual and group projects are integrated into the course. For example, one individual project is the building of a complete microcomputer.

The Sophister years
In the third year — Junior Sophister year — you will begin to encounter topics at a more advanced level, such as symbolic programming, software engineering, parsing technologies and more. At present, a small amount of specialisation is possible in the second half of this year.

In the final year — Senior Sophister year — with all the basic principles at your command, you will get an opportunity to study a range of more advanced topics. Most of the topics are taught by active researchers, so the selection can vary somewhat from year to year. At present, topics include Computer Vision, Advanced Computer Graphics, Internet Applications and more. You will also undertake a significant project. This project is an opportunity for you to pull together all you have learnt during the course to develop a new piece of knowledge; be it a new program, a new piece of hardware, a state of the art review or a new way of looking at things. The project is, in many respects, the culmination of your studies, and it should allow you to deploy and display your skills and virtuosity as you come to the end of the course.

Study abroad
You may apply to spend third year studying at a university in Belgium, France, Germany or the U.K. as part of the SOCRATES exchange programme.

Career opportunities
The Computer science course prepares you for work in industry or postgraduate study. Our graduates are employed as programmers, system designers, IT and business consultants, system administrators, CIOs and CTOs, security specialists, computer experts in fields such as the engineering and legal professions, marketing and advertising. Some of our graduates are successful entrepreneurs. For example, graduates of this course started Havok, a very well known developer of physics engine software for games. Many of our graduates undertake further studies, including postgraduate diplomas and degrees, and in some cases, postgraduate research.

Further information
www.cs.tcd.ie/courses/aba
Tel: +353 1 896 1765

Graduate profile
Erich Barnstedt, who graduated from this programme in 1999.

Erich Barnstedt obtained his B.A. in Computer science in 1999. This was followed in 2001 by an M.Sc. in Computer science by research.

He joined an interactive media company, NEOS Interactive, as Head of Product Development. After that, he joined Havok, where he held a number of different roles. Before joining Microsoft, he briefly worked as a C++ contractor. He has been with Microsoft since 2003 working in the Windows Operating System Division. At the time of writing, his role is Development Lead for Windows International. Says Erich:

“I liked the broad syllabus of the computer science degree, striking the right balance between computer engineering and software engineering, which gave me the crucial skills in today’s ever-changing IT industry. I also liked the hands-on approach of the project work, especially the microprocessor hardware project in second year. Since most of the projects were group projects, I learned important lessons about working in teams and gained important social skills for the working environment that have helped me tremendously in my career. I’ve heard time and time again (in interviews etc.) that Computer science in Trinity is the best computer science course in Ireland and beyond. There will also be a chronic shortage of good computer science graduates in Ireland in the next few years which a lot of companies (including Microsoft) have raised their concerns about.”

An example of research being carried out in the Computer Science Department: real-time 3D simulation of clothing, in the Virtual Dublin project. Final year undergraduates sometimes participate in research underway in our research groups.
What is CSLL?

This is an interdisciplinary degree combining computing, linguistics and a language. It allows students to explore in-depth the relationship between spoken and written natural language and the formal languages used in computer science – some of these are computing programming languages and others are formal languages for unambiguously describing natural language and mathematical concepts. In computer science, students learn the underlying fundamentals of computer software and computer-related mathematics. Linguistics is the scientific study of a language: its grammar, syntax, semantics and phonology (sounds). The chosen language (French, German or Irish) is studied to degree level.

Is this the right course for you?

This course offers a unique combination of skills – technical, mathematical, analytical, communicative. In doing so, it provides two of the most sought after skills today: fluency in a second language and a degree in computers, opening up a host of possibilities for your future career. If you enjoy mathematics, languages and problem solving and are interested in combining topics, then this is the right course for you.

Course content

In the first two years half of the programme is devoted to computer science and half to the study of linguistics and your chosen language. A year abroad is an integral part of the programme, further developing language skills and providing first-hand experience of university life in another country. It also provides a mechanism for students to incorporate greater optionality in the overall degree structure.

The final year offers students the opportunity to explore in greater depth areas where computers and language meet or in the classical core of the constituent disciplines.

All CSLL students also participate in the Dublin Computational Linguistics Research Seminar Series. This weekly seminar is hosted jointly by TCD, UCD, DCU and DIT, rotating annually amongst these partners. Seminars vary from industry talks to breaking academic research. You will notice many CSLL graduates among the World leaders giving these lectures.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Junior Freshman (1st year)</th>
<th>Senior Freshman (2nd year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science</td>
<td>Mathematics</td>
<td>Discrete and continuous mathematics</td>
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<tr>
<td></td>
<td>Introduction to programming</td>
<td>Data structures and programming techniques</td>
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<tr>
<td></td>
<td></td>
<td>Natural language processing</td>
</tr>
<tr>
<td>Linguistics</td>
<td>Introduction to the study of language (general linguistics)</td>
<td>Syntactic theory</td>
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<tr>
<td></td>
<td>Introduction to phonetics and phonology</td>
<td>Introduction to speech science</td>
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<td></td>
<td>Introduction to syntax</td>
<td>Formal semantics</td>
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<td></td>
<td></td>
<td>Instrumental phonetics</td>
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<td></td>
<td></td>
<td>Computational morphology</td>
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<tr>
<td></td>
<td></td>
<td>Statistics for linguistics</td>
</tr>
<tr>
<td>Language</td>
<td>Comprehension/composition and oral classes</td>
<td>Comprehension/composition and oral classes</td>
</tr>
</tbody>
</table>
The Sophister years

Junior Sophister (third year) students study computer science and linguistics at a university abroad (typically in Belgium, France, Germany or Scotland). The subjects you study during this year will depend on the specialist area of the particular university you choose, allowing you build a degree specifically focused on your interests and strengths. In the Senior Sophister (fourth) year you will take advanced courses in interdisciplinary areas such as artificial intelligence, information systems, 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 résumé, translation and essay writing.

An optional course and a major interdisciplinary project allow you to specialise in areas you particularly enjoy and to shape the degree around your individual strengths. Examples of final year course options include computer graphics, databases, 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 amounting to a substantial proportion of your overall degree result. The course options and project provide great freedom in tailoring the degree to your interests and career plans.

Career opportunities

You will be qualified to work as a language specialist, an information technologist or a software specialist in any of the IT, banking, translation, publishing or multi-media sectors. About 65% of graduates work in software engineering (whether in a mainly English speaking country or in a country where the language of the degree focus is the primary language); about 25% pursue research careers beginning with further postgraduate study in Ireland or abroad. Another 10% tend towards a focus in technical translation.

Further information

www.cs.tcd.ie/courses/csll
Tel: + 353 1 896 1765

Bachelor in Engineering (B.A.I.)
(common entry programme)

| COURSE CODE: | TR032 |
| PLACES 2007: | 175 |
| POINTS 2006: | 440 |
| DEGREE AWARDED: | B.A.I. |
| SPECIAL ENTRY REQUIREMENTS: |
| Leaving Certificate | HC3 Mathematics |
| Advanced GCE (A-Level) | Grade C Mathematics |

What is engineering?

Engineering is about using mathematical and scientific principles together with analytical and design skills to devise new solutions to practical problems. These problems might be related to the physical infrastructure (roads, buildings, machines, etc.) or to the information infrastructure (telecommunications, computers, electronics, etc.) of the environment in which we live.

Is this the right course for you?

Engineering is a constantly evolving profession. As an engineer, you will need to be adaptable both to the rapid development of new ideas and technology and to the shifting requirements of industry and society. Ideally you will be a good communicator and will also be capable of working as part of a team.

Course overview

The B.A.I. (engineering) degree programme is based on two years of general engineering, providing students with a firm grounding in the principles common to all disciplines, followed by two years of specialisation. Graduates are professionally accredited engineers with both a broad-based understanding of the whole discipline and a detailed knowledge of their chosen specialist area. The aim is that graduates will be able to continuously train themselves, to adapt and move into related or newly emerging areas as their careers develop after graduation.

The Freshman years

All students follow a common programme for the first two years. The Junior Freshman (first) year comprises introductory courses in engineering science, mathematics, computer science, physical science, mechanics, electricity and magnetism, graphics and computer-aided engineering.

In the Senior Freshman (second) year, students take a set of foundation courses and complete a basic design project in each of the specialist degree areas on offer. This allows you to explore all the possibilities open to you in advance of making your final decision about what specialism to concentrate on.
What happens next?
At the end of the Senior Freshman (second) year you choose one of the five specialist areas:
- Civil, structural and environmental engineering
- Computer engineering
- Electronic engineering
- Electronic and computer engineering (joint programme)
- Mechanical and manufacturing engineering

Courses in the Sophister (third and fourth) years aim to broaden and deepen your knowledge and understanding of the specialism you have chosen to follow to degree level.

Subjects are studied in much greater detail and students undertake real-life, practical projects. If you choose civil, structural and environmental engineering you could end up testing the pre-cast concrete used to build the Paddington to Heathrow railway; if you choose computer engineering, you might find yourself building a microprocessor system.

A substantial design project will be part of your final year assessment in each discipline.

Double qualification
Suitably qualified students may, at the end of their second year, apply for transfer to the double qualification programme, run jointly with the INSA de Lyon, the largest Engineering School in France.

Instruction at INSA de Lyon is through French and students will be required to have a high standard of language competence before participating on the programme.

Double qualification programme outline:

<table>
<thead>
<tr>
<th>Year</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>College</td>
<td>Trinity College</td>
<td>Trinity College</td>
<td>INSA</td>
<td>Trinity College</td>
<td>INSA</td>
</tr>
<tr>
<td>Award</td>
<td></td>
<td></td>
<td>B.A.I. from University of Dublin</td>
<td></td>
<td>Diplôme from INSA</td>
</tr>
</tbody>
</table>

At the end of a five-year double qualification programme TCD students may receive, in addition to the B.A.I., the Diplôme de l’INSA, which confers full professional accreditation in France.

Engineering at a glance
All students in TR032 follow common first and second years.

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

<table>
<thead>
<tr>
<th>Junior Freshman (first) year</th>
<th>Senior Freshman (second) year</th>
<th>Sophister (third &amp; fourth) years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures – 16 hours per week</td>
<td>Lectures – 16 hours per week</td>
<td>Engineering mathematics</td>
</tr>
<tr>
<td>Tutorials – 5 hours per week</td>
<td>Tutorials – 5 hours per week</td>
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</tr>
<tr>
<td>Laboratory work – 6 hours per week</td>
<td>Laboratory work – 4 hours per week</td>
<td></td>
</tr>
<tr>
<td>Engineering mathematics I and II</td>
<td>Engineering mathematics III and IV</td>
<td></td>
</tr>
<tr>
<td>Series and limits, differentiation, integration, ordinary differential equations</td>
<td>Partial differentiation; Laplace transform; Fourier series and transform; probability theory; vector calculus; linear algebra; optimisation and graph theory</td>
<td></td>
</tr>
<tr>
<td>Vectors, linear algebra, complex numbers, introduction to probability and inference</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer science I</td>
<td>Computer science II</td>
<td>Management for engineers</td>
</tr>
<tr>
<td>Introduction to computer systems and software; problem solving, algorithms and programming</td>
<td>Basic concepts of computer programming; object-oriented programming; classic data structures; representation and algorithms</td>
<td></td>
</tr>
<tr>
<td>Physical science</td>
<td>Solids and structures</td>
<td>And select one of the five specialisations below:</td>
</tr>
<tr>
<td>Physics – light, the quantum world, laboratory work</td>
<td>Mechanics of solids – properties of solids, stress and strain, failure criteria; applications</td>
<td></td>
</tr>
<tr>
<td>Chemistry – general chemistry, physical chemistry, organic chemistry</td>
<td>Structures – pin-jointed structures; analysis of beams; design of beams</td>
<td></td>
</tr>
<tr>
<td>Junior Freshman (first) year</td>
<td>Senior Freshman (second) year</td>
<td>Sophister (third &amp; fourth) years</td>
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<tr>
<td>-----------------------------</td>
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<tr>
<td><strong>Mechanics</strong></td>
<td><strong>Thermo-fluids</strong></td>
<td><strong>Civil, structural and environmental engineering</strong></td>
</tr>
<tr>
<td>Statics – Newton’s laws, forces, moments and couples, equilibrium, analysis of structures, friction, virtual work, hydrostatics</td>
<td>Fluid mechanics – principles of fluid motion; laminar and turbulent flows; pipe flows; free surface flows</td>
<td>p. 108</td>
</tr>
<tr>
<td>Dynamics – kinematics and kinetics of particles and of rigid bodies, simple harmonic motion and vibration</td>
<td>Thermodynamics – mechanical work processes of closed systems; mass and energy conservation; heat engines; the second law of thermodynamics</td>
<td></td>
</tr>
<tr>
<td><strong>Electricity and magnetism</strong></td>
<td><strong>Electronics</strong></td>
<td><strong>Mechanical and manufacturing engineering</strong></td>
</tr>
<tr>
<td>Electric circuits – electrical quantities, lumped-circuit elements, analysis of electric circuits, meters and measurements</td>
<td>Analogue electronics – discrete analogue electronics; linear integrated circuits; analogue/digital conversions</td>
<td>p. 113</td>
</tr>
<tr>
<td>Electrical energy systems – AC power systems, magnetic circuits and transformers, electromechanics, rotating machines</td>
<td>Digital electronics – combinational logic; sequential logic; digital circuits</td>
<td></td>
</tr>
<tr>
<td>Electronic analogue and communication systems – ideal operational amplifier, introduction to communication systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Graphics and computer-aided engineering</strong></td>
<td><strong>Engineering science II</strong></td>
<td><strong>Electronic engineering</strong></td>
</tr>
<tr>
<td>An introduction to the basic principles of engineering drawing and graphics, drawing office work, introduction to the use and practical application of computer-aided engineering software tools and packages</td>
<td>Electrical engineering – AC circuits; electrical machines; DC power supplies</td>
<td>p. 111</td>
</tr>
<tr>
<td>Dynamical systems – time domain response; frequency domain response; control systems</td>
<td>Dynamical systems – time domain response; frequency domain response; control systems</td>
<td></td>
</tr>
<tr>
<td>Environmental engineering – environmental chemistry; heat and energy balances; application to contamination and pollution in the natural environment</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Introduction to engineering</strong></td>
<td><strong>Materials</strong></td>
<td><strong>Computer engineering</strong></td>
</tr>
<tr>
<td>An introduction to each stream of engineering – civil, mechanical, electronic and computer engineering, experiments and reports</td>
<td>Electrical – semiconductors; conduction processes; p-n junction; semiconductor fabrication</td>
<td>p. 110</td>
</tr>
<tr>
<td>Mechanical – manufacture of materials; microstructure and heat treatment of steel and alloys</td>
<td>Mechanical – manufacture of materials; microstructure and heat treatment of steel and alloys</td>
<td></td>
</tr>
<tr>
<td>Civil – concrete technology; reinforced and pre-stressed concrete; timber technology</td>
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<td></td>
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<tr>
<td><strong>Engineering laboratories, design and project work</strong></td>
<td><strong>Engineering design</strong></td>
<td><strong>Electronic and computer engineering (joint programme)</strong></td>
</tr>
<tr>
<td>Experimental procedures, practical exercises, instrumentation and measurement techniques, introductory group project work on the conception, design and implementation of an engineering system</td>
<td>Each group will be required to design and produce a light rail vehicle to carry a standard can over a track including two inclines, a bridge and a curve, and for a bridge to carry that vehicle. You will also have to design and produce an electronic circuit to operate your vehicle.</td>
<td>p. 112</td>
</tr>
<tr>
<td><strong>Engineering laboratories</strong></td>
<td><strong>Experimental procedures, practical exercises, instrumentation and measurement techniques</strong></td>
<td></td>
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</tbody>
</table>
| There is an optional language course in French or German, with certification, in the Senior Freshman and Junior Sophister (second and third) years. Both courses continue over the two years.
Assessment
Assessment in each of the first two years is by means of written examination, primarily at the end of the last term combined with continuous assessment of coursework during the year. Typically, end of year examinations contribute at least 50% towards your grade in each subject.

Career opportunities
The B.A.I. is a professional degree accredited by Engineers Ireland and is recognised by a large number of engineering institutions outside Ireland. It will be your gateway to a wide and varying career path.

Further information
www.tcd.ie/Engineering/about
Tel: + 353 1 896 1746

Graduate profile
Simon Dobbyn B.A., B.A.I, Ph.D., took a fulltime undergraduate degree here and continued his studies as a post graduate in the computer graphics group where he received his Ph.D. He recently received funding from Enterprise Ireland with the aim of forming a games middleware company.

“The reason why I did Engineering was because I was interested in mathematics in school and I wanted to work in the computer games industry. However, since I was not sure whether computer science was for me, I felt that Engineering was a good choice since it allows you to specialise in different streams at the end of the course.

I think Engineering is a really good course to take, as it provides a good foundation to the core subjects related to the different fields such as maths, physics, and programming in the first two years. This means that by the third year, you have a comprehensive understanding of many different subjects, and you can then specialise in the field you are most interested in.”


Civil, structural and environmental engineering
Students who wish to study civil, structural and environmental engineering apply to the Bachelor in Engineering degree (TR032). The first two years are common to all engineering students and at the end of the second year students select civil, structural and environmental engineering as their specialist area.

See p. 105 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.

Civil engineering
Civil engineers design the services that we use and take for granted every day. Civil engineers ensure that we have clean running water, that traffic continues to move and that we have homes to live in and places to work. Whether it is supplying water to people or industry, building hospitals, factories or churches, or mining for fuel and other substances, a civil engineer has been involved.

Environmental engineering
Environmental engineers design the systems that provide us with water for all purposes and the systems that deal with waste. Environmental engineers also design ways of producing power from renewable resources and ensure that development happens in a sustainable way.

Structural engineering
Structural engineering is a branch of engineering that might involve designing a building, a bridge, a stadium, etc. Structural engineers have to ensure that a building is safe for the area that it is built in and for the purpose for which it is intended. It must also be economical and have a minimum impact on the environment.

Transportation
The planning and monitoring of our various transport systems, from cycling to high-speed railways, all come under the brief of the transport engineer. Not only does traffic have to be controlled, understanding the decisions that travellers make enables the engineer to influence users to make better choices for the environment and for each other.
The civil engineering specialism combines a unique set of skills – analytical and practical, as well as creative and environmental. Some professions, such as foundation and highway engineering or water supply, will require you, as the engineer, to be the sole expert or authority. Others, for example architecture, surveying and computer-aided design, will use your input on those aspects of the job that specifically relate to civil engineering design, construction and environmental impact.

What will you study?
Junior Sophister (third year) subjects include:

- **Structures** – the design and construction of all types of structures
- **Surveying** – the science of taking measurements to determine or establish the relative position of points above, on, or beneath the surface of the earth
- **Geotechnics** – the study of the properties and behaviour of the soil
- **Transportation** – the study of the design and maintenance of sustainable transport systems
- **Materials** – the study of the properties and behaviour of the materials used in civil engineering
- **Hydraulics** – the study of water movement and flow
- **Geology** – the study of the earth and how this affects engineering
- **Construction Technology** – considers the technology of building in concrete, steel or timber, building practice and regulations, planning, sustainability and energy conservation
- **Highway engineering** – the design of road infrastructure
- **Computer-aided design** – the use of computers to create designs

In the Senior Sophister (fourth) year you will take four core civil engineering subjects and four optional subjects.

The core subjects include:

- **Environmental Engineering 1** – Water quality characteristics, natural processes, process design concepts, wastewater treatment, air pollution
- **Hydraulics** – Flow of water in circular and non-circular conduits, pipe network analysis, pump characteristics
- **Geotechnical Engineering** – soil strength and its determination, slope stability, bearing capacity, earth pressures and retaining walls
- **Structures 1** – Reinforced concrete design, Structural steel: introduction to plastic theory, limit state design, rigid, semi-rigid and simple design.

Final year options include:

- **Design of the built environment** – Fire engineering, new materials, planning
- **Advanced theory and design of structures** – Reinforced concrete, prestressed concrete, non-linear analysis of structures and design of tall buildings
- **Engineering geology and hydrogeology** – hydrogeology and groundwater engineering; rock mechanics, including slope and tunnel stability
- **Environmental engineering 2** – contaminant transport, water resources engineering, especially in developing countries
- **Transportation engineering** – Transportation engineering, transportation modelling, transportation systems.
- **Materials** – Origin, decay and preservation of stone, mortar and block; clay and cementitious brick; concrete investigation

A significant amount of teaching takes place in the laboratory, and the course involves a lot of project work. Students undertake site visits to civil engineering works and areas of geological interest nationally and there is also a one-week technical visit to an international location. Recent trips have included visits to Paris and Barcelona.

A group design project forms part of the Junior Sophister (third year) programme. In the past, students have designed a stadium, a cathedral and an opera house.

The Senior Sophister (fourth year) project will contribute approximately 20% to your final year marks. In recent years, projects have included:

- **Intelligent Transport Systems in Dublin**
- **Structural Dynamics and e-learning**
- **Vibrations due to traffic in the Port Tunnel**
- **Landslides in the Dublin/Wicklow Region**
- **Solar Energy for Rural Households**

Study abroad
In the Junior Sophister (third year), students get the chance to study in Europe (France, Germany, Italy or Spain) as part of the SOCRATES programme.

Career opportunities
In addition to working in the traditional areas of engineering such as construction, design and transport management, civil engineers are often employed in the banking industry, in law firms and in business areas. The numerical and problem solving skills and expertise that civil engineers have are broad based and make them very attractive employees to many different industries.

Further information
www.tcd.ie/Civil_engineering
Tel: + 353 1 896 2084
Computer engineering

Students who wish to study computer engineering apply to the Bachelor in Engineering degree (TR032). The first two years are common to all engineering students and at the end of the second year students select computer engineering as their specialist area.

See p. 105 for details of the Freshman (first two) years.

What is computer engineering?

Computer engineering is about understanding how computer systems work, and also how they integrate with other systems that surround us. For example, the car. A modern car contains many separate computer systems for controlling such things as the engine timing, the brakes and the air bags. To be able to design and construct such a car, the computer engineer needs a broad theoretical understanding of all these various sub-systems and how they interact. This might involve some mechanical engineering, thermodynamics and fluids as well as the computer systems themselves.

The impact of computer engineering has been more significant and more pervasive than that of many other disciplines. The mobile phone, the Internet and games consoles are all products that weren’t even imagined 30 years ago, but have now been realised by the ingenuity of computer engineers.

Computer engineers may design computer hardware, write computer programs, integrate the various sub-systems together or do all three. Computer engineers need good management skills and good people skills as they often get quickly promoted to project management positions.

What will you study?

Junior Sophister (third year) courses cover:

- **Microprocessor systems** (including building a microprocessor system) – all aspects of the principles, design, construction and characterisation of the hardware and system software of microprocessor-based computers
- **Computer networks** – protocols and behaviour of computer networks
- **Operating systems and concurrent systems** – programmes that coordinate, manage and control the allocation of computer resources to other programmes. Systems of programmes designed to run alongside one another, in the same processor or in multiple connected processors

In the Senior Sophister (fourth) year you will study:

- **Distributed systems and advanced microprocessor systems** – distributed systems models, file servers, naming, recovery from failure, advanced topics and case studies, and the architecture of high-performance computer systems
- **Knowledge and data engineering** – file and database management, information structuring and retrieval, and knowledge management. Design and operation of rule-based systems, expert system applications, heuristic search and case-based reasoning
- **Computer graphics** – introduction to computer graphics: Modelling, Rendering and Animation

- **Computer vision** – image processing, 3D vision, object recognition and tracking with reference to applications in healthcare, multimedia and robotics
- **Integrated systems design** – modern microelectronic technology requires electronic engineers to design complex circuits that integrate many separate processes to form a complete system

Practical work is emphasised throughout the Sophister (third and fourth) years and in the final year you will be required to complete a substantial project. Recent projects have included:

- An investigation into Sugarscape
- Automatic visualisation of Java programmes
- CLP-based printing job scheduler
- Character comparison using image processing
- Statistical analysis of non-invasive high speed interconnect data
- Genetic algorithms for programme optimisation
- Virtual educational environments
- Real time smash simulation
- Bluetooth IP with payment for services

Study abroad

You may choose to spend the Junior Sophister (third) year at a European university as part of the ERASMUS programme.

Career opportunities

The demand for software and system designers will continue to grow within the next decade. When you graduate you will find opportunities for employment in software companies, large industrial organisations, research institutions and multinationals in Ireland as well as in Europe, the US and Japan.

Further information

[www.tcd.ie/Engineering/courses](http://www.tcd.ie/Engineering/courses)
Tel: +353 1 896 1765

Cardiac simulation
Electronic engineering

Students who wish to study electronic engineering apply to the Bachelor in Engineering degree (TR032). The first two years are common to all engineering students and at the end of the second year students select electronic engineering as their specialist area.

See p. 105 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 then applying these functions to improve the quality of our lives.

The role of the electronic engineer is to devise suitable circuits and systems for the acquisition, storage, processing and transmission of low-power electronic signals as information-bearing electrical signals.

In today’s Information Age there is an ever-growing use of mobile phones, internet resources, computers, entertainment systems, satellite imaging, optical fibres, and automation. Electronic components and circuits are the cornerstone technology used to monitor or detect, store, process and transmit the information generated by each of these systems. Electronic engineers provide the vital skills and innovation needed to design and develop these remarkable components and systems.

Course overview

In the Junior Sophister (third) year you will study a total of seven electronic engineering subjects and four core engineering subjects.

There are approximately 16 hours of lectures, 4 hours of tutorials, 3 hours of laboratory time and 3 hours of project time per week.

What will you study?

Junior Sophister (third year) courses cover:

- **Core elements of analogue and digital electronics** – the principles of operation of electronic devices and their behaviour when connected to form circuits
- **Microprocessor systems** – all aspects of the principles, design, construction and characterisation of the hardware and system software of microprocessor-based computers
- **Signals and systems** – electronic circuits, mathematical methods and algorithms for describing and processing signals such as audio and video
- **Electromagnetism and optoelectronics** – the principles of the physical systems and of the mathematical characterisation of the transmission of electromagnetic radiation
- **Telecommunications** – electronic circuits and networks and the principles of modulation and coding for the transmission of information over guided paths and through free-space

Integrated systems design – modern microelectronic technology requires electronic engineers to design complex circuits that integrate many separate processes to form a complete system

In the Senior Sophister (fourth) year, in addition to a course in engineering management and wireless networks, you will choose a combination of subjects that allows further specialisation: from integrated circuit technology and design through to telecommunications and signal processing. Each final year student also completes a project. Some recent examples of final year project areas are:

- Communications networking
- Electronic Circuit Design
- Integrated Circuit Technology
- Electronic and Optoelectronic Materials
- Video and Image Processing
- Speech, Audio and Acoustic Signal Processing

A final year electronic engineering student typically has a weekly timetable of 14 hours of lectures, 4 hours of tutorials and 3 hours of laboratory work. Additionally, you will have laboratory access for individual work on your project.

Studying abroad

You may choose to spend the Junior Sophister (third) year at a European university as part of the ERASMUS programme.

Career opportunities

The careers open to graduates in electronic engineering range from circuit design in electronics companies through network design and management in telecommunications companies to opportunities in business and financial management where the analytic and problem solving skills of electronic engineers have long been appreciated.

Further information

Department of Electronic and Electrical Engineering
www.tcd.ie/Engineering/Courses/BAI/index.html
Tel: + 353 1 896 1738
Electronic and computer engineering (joint programme)

Students who wish to study electronic and computer engineering apply to the Bachelor in Engineering degree (TR032). The first two years are common to all engineering students and at the end of the second year students select the joint programme in electronic and computer engineering as their specialist area.
See p. 105 for details of the Freshman (first two) years.

What is electronic and computer engineering?
Organising both hardware (electronic) and software (computer) components into a useful and productive system is the principal job of the electronic and computer engineer. With a unique combination of both skill-sets, such an engineer is trained to make design decisions that result in the most productive systems.

Course overview
In the Junior Sophister (third) year you will study four core engineering subjects and seven electronic and computer engineering subjects. There are approximately 16 hours of lectures, 4 hours of tutorials, 3 hours of laboratory time and 3 hours of project time per week.

What will you study?
This degree option blends aspects of both the electronic engineering (see p. 111) and computer engineering (see p. 110) options into one course.

Junior Sophister (third year) courses cover:

- **Core elements of analogue and digital electronics** – the principles of operation of electronic devices and their behaviour when connected to form circuits
- **Microprocessor systems** – all aspects of the principles, design, construction and characterisation of the hardware and system software of microprocessor-based computers
- **Signals and systems** – electronic circuits, mathematical methods and algorithms for describing and processing signals, such as audio and video
- **Concurrent systems** – systems of programs designed to run alongside one another, in the same processor or in multiple connected processors
- **Computer-aided design** – principles and techniques used in CAD, such as visualisation and 3D modelling, artificial vision and robotics
- **Networking and advanced microprocessor systems** – protocols and behaviour of computer networks and the architecture of high performance computer systems
- **Operating systems** – programs that co-ordinate, manage and control the allocation of computer resources to other programs
- **Distributed systems** – programs working in a co-ordinated way on widely-separated computers connected by networks
- **Knowledge and data engineering** – principles and techniques for handling knowledge and data, from database methods and technologies to artificial intelligence and data mining
- **Telecommunications** – electronic circuits and networks and the principles of modulation and coding for the transmission of information over guided paths and through free-space
- **Integrated systems design** – modern microelectronic technology requires electronic engineers to design complex circuits that integrate many separate processes to form a complete system

In the Senior Sophister (fourth) year in addition to a course in engineering management and wireless networks, you will choose a combination of subjects that allows you to balance your specialisation between the electronic and computer engineering subjects.

Each final year student also completes a project that is assessed by a presentation and an end of year dissertation. Some examples of final year project areas include:

- **Communications networking**
- **Electronic Circuit Design**
- **Integrated Circuit Technology**
- **Electronic and Optoelectronic Materials**
- **Video and Image Processing**
- **Speech, Audio and Acoustic Signal Processing**
- **Interactive distributed art installation using networking**
- **Impulsive audio event detection for video retrieval**
- **Anonymous, secure, robust and scalable peer-to-peer file sharing system for the internet**
- **A distributed music rehearsal studio application**
- **Secure lottery-like services over WAP**

A final year electronic and computer engineering student typically has a weekly timetable consisting of 14 hours of lectures, 4 hours of tutorials and 3 hours of laboratory work. Additionally, each student is provided with laboratory access for individual work on their project.
Studying abroad
You may choose to spend the Junior Sophister (third) year at a European university as part of the ERASMUS programme.

Career opportunities
The variety of careers open to graduates of electronic and computer engineering range from designing embedded processors for a wide range of applications through network design and management in telecommunications companies to opportunities in business and financial management where the analytic and problem solving skills of electronic and computer engineers have long been appreciated.

Further information
Department of Computer Science
www.cs.tcd.ie
Tel: +353 1 896 1765

Department of Electronic and Electrical Engineering
www.mee.tcd.ie
Tel: +353 1 896 1738

Mechanical and manufacturing engineering

Students who wish to study mechanical and manufacturing engineering apply to the Bachelor in Engineering degree (TR032). The first two years are common to all engineering students and at the end of the second year students select mechanical and manufacturing engineering as their specialist area.

See p. 105 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 every day life – from the car or washing machine to the most complex aircraft or electricity supply plant – have required the skills of a mechanical engineer. Every industrial plant or manufacturing operation relies on a mechanical engineer for its smooth running and efficiency.

Mechanical engineers are involved in design, testing, inspection and manufacture of mechanical devices and components. As a mechanical engineer you will work as a professional using technology to make the world a better, safer place.

What will you study?
Junior Sophister (third year) courses cover:

- **Thermodynamics** – applications of heat energy in engines and other appliances
- **Solid mechanics** – stresses and deformation experienced by components under service loads
- **Engineering materials** – the behaviour of metals, polymers and ceramics under service loads or during the manufacture of products from these materials
- **Fluid mechanics** – the study of gases and liquids, for example the flow of air over the wings of an aircraft, or the flow of air into a car engine
- **Manufacturing technology and systems** – the various processes involved in making components
- **Mechanics of machines** – the behaviour of components or assemblies when they are in motion
- **Mechatronics** – the study of electro-mechanical systems, for example the electronic control of engines and manufacturing processes
- **Engineering design** – principles underlying the correct design of components
Project work is an important aspect of this specialisation and there is an extensive research facility available to students. In the Junior Sophister (third) year you will work as part of a small team completing a design project to understand how goods are manufactured.

In the Senior Sophister (fourth) year you will undertake a major project in addition to studying advanced courses in areas such as vibrations and acoustics, biomechanics and tribology. Some examples of final year projects include:

- Study of jet engine exhaust noise
- Design and build an entry for 'Robot Wars'
- Design and construction of an energy storage device for a pedal cycle
- Pedestrian impact study
- Weighing trucks in motion

**Study abroad**

The Department has SOCRATES links with Katholieke University of Leuven, Belgium; INSA de Lyon (which provides a one-month intensive immersion course in French language if required); INPG Grenoble; Karlsruhe, Germany and KTH, Sweden.

**Double qualification**

The Department has an agreement with INSA de Lyon, the largest Engineering School in France, which allows students to acquire the Diplôme de l’INSA by following a special combination of courses over a five year period. Students who complete this programme successfully have full professional accreditation in France.

**Career opportunities**

As well as the potential for a career in mainstream mechanical or manufacturing engineering, graduates have found work in industries as diverse as film production and airlines. There is also a demand for specialist research and development work in industry, research organisations and universities. Opportunities exist for graduates in mechanical and manufacturing engineering to find employment in Ireland and elsewhere in the following areas:

- Engineering consultancy companies engaged in national and international engineering projects
- Large public utilities – Local Authorities, transport, power generation etc.
- Companies manufacturing mechanical, electronic, biomedical and pharmaceutical products
- Specialist areas such as design, engineering management, financial services and IT.

**Further information**

[www.tcd.ie/Engineering/courses](http://www.tcd.ie/Engineering/courses)
Tel: + 353 1 896 1383
Engineering with management

What is engineering with management?
Engineering with management is an 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 shuttles
- ball-point pens to laser printers
- matchbox cars to F1 racing cars
- wheelchairs to artificial joints
- yachts to the Airbus A380

However, in today’s market, a qualification in engineering must also reflect the global commercial outlook of companies. Engineers are in demand because they are seen as people who can contribute greatly to productivity and competitiveness in the world marketplace.

Engineering with management is concerned with the analysis, design, improvement, installation and management of integrated systems of people, finances, materials and equipment. It draws upon specialised knowledge in the principles and methods of engineering analysis and design together with a number of disciplines such as the management of people, finances, sales, marketing, production, project management and communications.

Is this the right course for you?
Do you like the creative, analytical, problem-solving focus of engineering? Do you like the diversity of engineering? Perhaps, though, you see your professional life more involved with running a company, managing projects, or being a consultant? If any of these describes you, then you should consider this course. The diversity and flexibility of this course will give you endless possibilities in your professional life, both in what you do and how you do it.

Course overview
The course is a fully accredited professional engineering degree that aims to produce graduate engineers capable of working in the competitive environment of world-class manufacturing. To achieve this, the syllabus integrates management subjects with a proven engineering programme.

Approximately 80% of the syllabus comprises engineering subjects such as design, automation, computer simulation/modelling, and materials. The remaining 20% comprises management subjects such as marketing, finance, quality systems, operations strategy, and human resources management, amongst others.

The syllabus is ambitious and diverse and will appeal to students who wish to broaden a traditional engineering degree with business and management skills.

What will you study?
The course is structured around themes that are developed over the four years. These themes are:

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

Throughout the course, a strong emphasis is placed on group projects, case studies and teamwork.

Course content
The Freshman years
The Junior Freshman (first) year covers the foundations in mathematics and physical sciences upon which all engineering is built, as well as introductory courses in manufacturing engineering and in management science. Many of these courses are common to the larger B.A.I. engineering degree (see p. 105). In addition, a course in computer science introduces you to general programming appropriate to engineers. The first year contains a high proportion of project and laboratory work to emphasise the practical nature of the discipline. There are approximately 28 hours of classes and practicals per week in the Freshman years.

In the Senior Freshman (second) year you will take some more courses in mathematics as well as specific engineering courses in design, thermodynamics, fluid mechanics and materials. There are also introductory courses in statistical analysis and accounting.

The Sophister years
The Junior Sophister (third) year represents the highest load in terms of subject diversity. The engineering themes introduced in second year are further developed (e.g., mechanics of solids, materials, design) and this year also includes a range of management science subjects. These are positioned in third year so that they can be taught in the context of the engineering courses. For example the design project is integrated into each of the design, human resource management, and operations management courses.

During the Senior Sophister (final) year you will take two core subjects, a selection of optional engineering and management subjects and also a substantial project. This allows you to concentrate on the areas of the course you have found most interesting. The project is engineering in nature but will also require a significant business and project management input.
Engineering with management at a glance

Students in TR038 pursue an accredited engineering degree. Several of the courses are shared with the larger engineering class, MSISS and business students but the vast majority are unique to TR038.

<table>
<thead>
<tr>
<th>Junior Freshman (1st yr): A foundation year that will introduce you to many of the basic concepts in Engineering with management.</th>
<th>Senior Freshman (2nd yr): Development of themes in engineering and management introduced in the first year.</th>
<th>Junior Sophister (3rd yr): Integrates the professional degree in engineering with management science.</th>
<th>Senior Sophister (4th yr): Final integration of the professional degree in engineering with management science.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Work:</strong> Individual and group projects on designing new product concepts and experimental methods.</td>
<td><strong>Project Work:</strong> Design projects introducing standards in drawing and design using computer-aided engineering software tools. Group and independent research projects in materials.</td>
<td><strong>Project Work:</strong> Individual and group design projects integrating manufacturing, business, and human factors.</td>
<td><strong>Project Work:</strong> Individual full-year engineering project emphasising the integration of technical and business solutions.</td>
</tr>
<tr>
<td><strong>Engineering Themes:</strong> Mathematics, Physics, Chemistry, Computer science, Engineering science, Manufacturing technology, Engineering laboratories</td>
<td><strong>Engineering Themes:</strong> Mathematics, Engineering science, Mechanics of solids, Electronics, Materials, Thermodynamics, Fluid mechanics, Engineering laboratories</td>
<td><strong>Engineering Themes:</strong> Computer methods, Mechanics of machines, Control systems, Failure of materials, Manufacturing technology, Engineering laboratories</td>
<td><strong>Required courses:</strong> Advanced manufacturing I, Supply chain management</td>
</tr>
<tr>
<td><strong>Management Theme:</strong> Management science</td>
<td><strong>Management Themes:</strong> Accounting and finance, Statistical analysis</td>
<td><strong>Management Themes:</strong> Project management, Human resource management, Quality systems, Information systems, Operations management</td>
<td><strong>Management options:</strong> Operations strategy, Management science in practice, Total quality systems, Strategic information systems, New product development</td>
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</table>

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

**Assessment**

Assessment is by written examination, continuous assessment (laboratory and tutorial assignments) and project work. Some courses, such as design, are assessed completely by continuous assessment.

**Career opportunities**

Graduates of the programme will have a wide range of skills that will allow them to excel quickly in both the engineering and engineering management fields. Graduates will be suited to jobs in the high-tech sector (e.g. computer, aerospace, pharmaceutical, electronic) as well as traditional manufacturing (e.g. design, fabrication, assembly). They often work as project managers on teams with design and test engineers, managers, financial controllers, marketing and sales people. The qualification is also well suited to those who wish to pursue careers in project management and management consultancy.

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, Wyse Pharmaceuticals, Denis Woods Forensic Engineers, PWC Accountancy, Accenture, Reckitt Benckiser.

**Further information**

www.tcd.ie/Engineering/courses
Tel: + 353 1 896 1383
Human genetics

**COURSE CODE:** TR073

**PLACES 2007:** 13

**POINTS 2006:** 535*

**DEGREE AWARDED:** B.A.

**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 not permitted:**

- Physics/chemistry with physics or chemistry
- Applied mathematics with mathematics
- Human genetics (TR073) focuses on the genes of humans while the genetics option in science examines plant, human and other animal genes.
- Students who apply for the general entry science course (TR071) have the option of selecting genetics as their specialist subject for the Sophister (third and fourth) years of the course. See p. 132.

What is human genetics?

Human genetics is the study of genes – or heredity – in humans. It also examines the effects of these genes on both individuals and societies. It has developed rapidly in the last decade as new technology has made it possible to study genes in much greater detail. Examples of remarkable advances in knowledge include:

- The discovery of the molecular basis of many inherited disorders
- The ability to trace the evolution of mankind
- The application of DNA finger-printing to forensic science

Is this the right course for you?

Human genetics is a knowledge-driven, dynamic and exciting field. As most graduates of this programme go on to careers in research you must be prepared to take this route as a career option.

Course overview

This course provides you with a strong base in the basic sciences of biology, chemistry and mathematics, as well as in the classical principles of genetics – molecular, population and quantitative genetics, bioinformatics and molecular evolution.

Over the four-year period of your degree programme, the course will also demonstrate the importance of studies in model organisms, especially the mouse. Seminar and tutorial programmes, organised with staff from various disciplines, are an integral part of your studies, and encompass such subjects as the interactions between genetics and the social sciences, ethics, linguistics, philosophy and law, and the general relationship between genes, society and culture.

The Freshman years

In the Junior and Senior Freshman (first two) years you will concentrate on the areas of biology, chemistry and mathematics, and will also be introduced to the principles of genetics.

In each of the first two years you will take some of the same courses as science students: biology, chemistry and mathematics in the Junior Freshman (first) year and biology I, chemistry and mathematics in the Senior Freshman (second) year – see pp. 124–125. In addition you will have a weekly genetics tutorial.

The Sophister years

In the 3rd and 4th years you will undertake specialised studies in areas such as:

- Neurogenetics
- Molecular evolution
- Population genetics
- Computer programming
- Mutation
- Cancer genetics

In the Senior Sophister (fourth) year, you will also carry out research projects and write reviews on questions in human genetics.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examinations.

Study abroad

At the end of the Junior Sophister (third) year, you may be able to spend the summer months working in a human genetics research laboratory. This is often in the USA, with some financial assistance provided.

Career opportunities

Most likely, you will go on to study for a higher degree or to a career in research, whether in a university, research institute, or in industry.

Further information

[www.tcd.ie/Genetics](http://www.tcd.ie/Genetics)
Tel: + 353 1 896 1140
What is MSISS?
MSISS combines the art of problem solving with the science of management. The emphasis in MSISS is on building up analytical skills, flexibility and creative thinking. One of the remarkable features of MSISS is the range of careers that graduates take up.

MSISS is made up of four strands. The first is based around developing skills in quantitative techniques, such as mathematics, statistics, probability, forecasting and management science. The second strand focuses on information technology and systems and ranges from basic end user tools, like spreadsheets, through programming, system design and development and databases up to state-of-the-art topics/techniques in areas such as data mining and financial modelling. The third strand is business based and covers important concepts in management, finance and operations management. The fourth strand seeks to develop a range of personal skills including teamwork, making presentations, interviewing, report writing and researching.

Course overview
The four strands in MSISS are organised as three main subject areas supported by the interpersonal skills framework. The three subject areas are:

- Business and management
- Quantitative analysis
- Information systems

Interpersonal skills such as interviewing and making presentations are both taught explicitly and implicitly (i.e., built into the teaching of other subjects). An optional modern language course is also available.

The Sophister (third and fourth) years provide the opportunity to specialise in an area of your choice.

Is this the right course for you?
This course is ideally suited to students who like solving complex problems and are interested in both technology and business.

The range of subjects studied is wide and will challenge your abilities on several fronts, but it leads to graduates who have the ability to think about issues in both technical and business terms. MSISS is quite unique – there is no other undergraduate course in Ireland (or possibly even in the UK either) which offers this mix. As a result, graduates are highly employable in a world where a combination of business, technology and numerical skills are in increasing demand.

Course content
The modules covered by main subject areas are as follows:

**Business and management:**
- Introduction to management and organisation
- Finance and accounting
- Operations management
- Economics

**Quantitative analysis:**
- Forecasting
- Management science (operations research)
- Data mining
- Market research
- Mathematics
- Probability
- Statistics

**Information systems:**
- Information systems and technology
- Programming (C, C++, Visual Basic and Oracle)
- Strategic information systems
- End user computing

**Personal skills:**
- Making presentations
- Interviewing
- Report writing
- Research methods
- Teamworking
- Consulting

The Freshman years
During the Junior and Senior Freshman (first two) years, you will get a solid introduction to a number of fields. Subjects you will study include:

- Computer programming
- Economics
You may also take one of French, German, Spanish or Italian as an optional language module (see p. 18).

The Sophister years
The Junior and Senior Sophister (third and fourth) years allow you to focus on areas that are of particular interest to you.

In each year there are a number of core courses (five in third year and three in fourth year) and a range of optional subjects from which students select one in each of the final two years.

The choice of optional subjects is exceptionally wide and spans business studies, economics, computer science, statistics, mathematics and engineering. The courses currently offered include financial and management accounting, economics, human resources management, mathematics, marketing management, investment analysis, corporate financial reporting, statistical modelling and production and operations management.

A key feature of the Senior Sophister (fourth) year is the project. You will tackle a real-life, practical problem in an external organisation. In recent years projects have been undertaken for Merrill Lynch, Procter and Gamble, the Department of Agriculture, Dublin Corporation Credit Union, the Alzheimer Society of Ireland and the Royal Dublin Society to name but a few.

Assessment
You will be assessed by a combination of assignments and end-of-year examination. A report on the final year project is an important part of the assessment.

Career opportunities
MSISS is highly regarded by employers and has one of the best graduate employment records of any undergraduate course in Ireland.

Over recent years, the most popular careers for MSISS graduates have been in financial services, management consultancy and the actuarial and accounting professions, but each year there are students who do something quite different including, in a number of cases, starting their own companies.

Further information
www.msiss.com
Tel: + 353 1 896 1768

Mathematics

<table>
<thead>
<tr>
<th>COURSE CODES:</th>
<th>TR031</th>
<th>TR001 (TSM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLACES 2007:</td>
<td>30</td>
<td>10</td>
</tr>
<tr>
<td>POINTS 2006:</td>
<td>400</td>
<td>510*-550</td>
</tr>
<tr>
<td>DEGREE AWARDED:</td>
<td>B.A.</td>
<td></td>
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<tr>
<td>TSM points:</td>
<td>See note on p. 12</td>
<td></td>
</tr>
</tbody>
</table>

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate  HB3  Mathematics
Advanced GCE (A-Level)  Grade B  Mathematics

TR031: Mathematics is studied as a single honor course.
TR001 (TSM): Mathematics must be combined with one other subject within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. Both subjects are normally studied for three years and one subject only is studied in the fourth year. An honors degree is awarded in both subjects.

Single honor and TSM students follow the same mathematics courses. However, while TSM students cover all the principal areas, the workload is less intense than that of the single honor programme.

For subjects that combine with mathematics see p. 30.

See also:
TR035: Theoretical physics, p. 141

Course overview
The course aims to provide you with a firm foundation in all the basic areas of mathematics and then allow you to specialise in the areas that most suit your interests and talents. Mathematics is an excellent choice for anyone hoping to meet the demand for mathematics graduates in the current job market which values numeracy, ability in abstract reasoning and the skill to turn ideas into methods.
Is this the right course for you?

If you have a natural ability in mathematics and are genuinely interested in applying mathematical solutions to problem solving, then this course will suit you well. It is also a great start for a career in actuarial work, finance or accounting, although these will require further training.

Course content

This four-year programme is designed to provide you with a broad mathematical training that will, in turn, allow you to work in any environment that requires strong numerical and logical skills.

The courses offered can be grouped into four areas:

- Pure mathematics which explores basic concepts and abstract theories
- Applied and computational mathematics to solve practical problems
- The mathematics of theoretical physics
- Statistical models and methodology

All students take common courses in first year, and continue with core courses in algebra, analysis and mathematical methods in second year. As a Sophister (third and fourth year student) you will be able to specialise in the areas that appeal most to you.

The Freshman years

In Junior Freshman (first) year there are two core courses, linear algebra and analysis. These courses are designed to teach the theory and the applications of each subject so they are quite intensive.

In addition students choose two courses from:

- Classical mechanics
- Introduction to statistics: concepts of statistical inference and related probability theory; elementary statistical methods and applications; statistical software and data analysis
- Introduction to computer architecture and programming: programming in a high level language; numerical methods (this will include practical work)

There are approximately twenty hours of classes per week in the Junior Freshman year.

In the Senior Freshman (second) year you will continue to study algebra and analysis. In addition you will select two subjects of your choice from a range that explore the Junior Freshman topics in greater depth. This allows you to begin tailoring the degree to your own strengths and areas of interest.

The Sophister years

In the Sophister (third and fourth) years you will have the opportunity to choose either five or six subjects from a selection of over 20 wide-ranging options. Many subjects cover topics from the first and second year, but additional possibilities include computer engineering, mathematical economics, cryptography and computer-aided design.

One of the optional subjects may be replaced by an independent research project conducted under the supervision of a member of staff.

Assessment

You will be assessed by a combination of continuous assessment and end-of-year examination, with all work undertaken during your last two years counting towards your final degree result.

Study abroad

As part of the SOCRATES exchange programme, you can opt to spend the Junior Sophister (third) year in Athens, Darmstadt, Leuven or Durham.

Career opportunities

A degree in mathematics opens up the possibility of a career in a variety of industries and sectors. Graduates have found employment in computing, where mathematics skills have immediate and practical application. The financial services and internet security sectors are also common first destinations for graduates. Other options include statistics, teaching, accountancy, actuarial work, finance, and all areas of pure and applied mathematics. Many of these involve further study or intensive research.

Further information

www.maths.tcd.ie
Tel: +353 1 896 1949
Medicinal chemistry

**COURSE CODE:** TR075  
**PLACES 2007:** 25  
**POINTS 2006:** 470*  
**DEGREE AWARDED:** B.A.

**SPECIAL ENTRY REQUIREMENTS:**  
**Leaving Certificate**  
OC3 or HD3 Mathematics  
HC3 In two of: physics, chemistry, biology, mathematics, physics/chemistry, geology, geography, applied mathematics or agricultural science  
**GCSE**  
Grade B Mathematics  
**Advanced GCE (A-Level)**  
Grade C In two of physics, chemistry, biology, mathematics, geology, geography or applied mathematics

**Combinations not permitted:**  
Physics/chemistry with physics or chemistry  
Agricultural science with biology  
Applied mathematics with mathematics  

**See also:**  
TR071: Chemistry, p. 130  
TR074: Chemistry with molecular modelling, p. 101

### What is medicinal chemistry?  
Medicinal chemists are the creative talent behind the modern pharmaceutical industry. As well as being expert chemists, they have a particular expertise in molecular design, the synthesis of drugs and the understanding of biological functions.

### Is this the right course for you?  
Yes, if your dream is to design and prepare new drugs and if you want to understand the biological reasons by which they cure diseases. If you have a natural flair for chemistry and are simultaneously interested in developing skills and expert knowledge relevant to the rapidly growing pharmaceutical industry.

### Did you know?  
Medicinal chemists are the professionals behind the discovery and development of new drugs such as Taxol which is manufactured by Bristol Myers Squibb in Swords (Co. Dublin) and has saved the lives of many women with breast cancer.

### Course overview  
This degree provides you with a sound general grounding in chemistry but focuses on, and extends into, topics of relevance to the design and production of new medicinal compounds and understanding their biological actions.

### The Freshman years  
In the first two years you will follow the science (TR071) programme, taking chemistry, biology and mathematics in the Junior Freshman (first) year, and chemistry, biology I and either biology II or mathematics in the Senior Freshman (second) year – see pp. 124-125. In addition, special sessions held specifically for your group will introduce you to the ideas and techniques of medicinal chemistry.

### The Sophister years  
In the Junior and Senior Sophister (third and fourth) years the course will branch off into the more specialised aspects of medicinal chemistry, although there will be considerable overlap with the chemistry programme (p. 130).

The overlap will be mainly in organic chemistry, with less emphasis being placed on physical chemistry and inorganic chemistry in order to allow for the introduction of the new medicinal chemistry units.

In the Junior Sophister (third) year, your special medicinal chemistry courses will include:

- Basic principles of medicinal chemistry
- Pharmacology (how drugs interact with the body)
- Drug design (how chemists design new drugs for specific diseases)
- Anti-viral and anti-cancer agents
- Anti-microbial and anti-infective agents (compounds that can combat the microorganisms that cause disease)
- Anti-malarial chemistry (study of the development of new drugs in this area)
- Steroid drugs (study of drugs based on the steroid skeleton)
- Industrial chemistry (short course on medicinal chemistry in industry)

In the Senior Sophister (fourth) year, you will cover the medicinal chemistry of the cardiovascular and central nervous systems, combinational chemistry and drug delivery, as well as computational medicinal chemistry and modern analytical methods. Case studies in medicinal chemistry, such as AIDS or anti-ulcer drugs will also feature on your programme.

Practical work in the final year will consist of a research project. This may be carried out either in Trinity under the supervision of a member of staff, in a chemistry department at an overseas university, or in a commercial laboratory.

### Study abroad  
To date, arrangements have been made for students to carry out their final year research projects, from October to December, in Regensburg, Madrid, Liverpool, Copenhagen, Montpellier and Bologna universities.

### Assessment  
You will be assessed by a combination of continuous assessment and end-of-year examinations.
Career opportunities
As with graduates in other types of chemistry, the skills acquired during this course will make you highly attractive to employers in a wide variety of areas. In addition to the pharmaceutical industry itself, business, finance, administration and teaching are all possibilities open to you as a graduate of medicinal chemistry. Former graduates of this course are working in companies such as Wyeth, Abbot, Glaxo-Smith-Kline, Servier or Deloitte & Touch.

Further information
www.tcd.ie/Chemistry/teaching/medicinal/index.php
Tel: + 353 1 896 3731

Physics and chemistry of advanced materials

<table>
<thead>
<tr>
<th>COURSE CODE:</th>
<th>TR076</th>
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</thead>
<tbody>
<tr>
<td>PLACES 2007:</td>
<td>20</td>
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<tr>
<td>POINTS 2006:</td>
<td>355</td>
</tr>
<tr>
<td>DEGREE AWARDED:</td>
<td>B.A.</td>
</tr>
</tbody>
</table>

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate
- OC3 or HD3 Mathematics
- HC3 In two of physics, chemistry, biology, physics/chemistry, applied mathematics or a higher level grade C in mathematics and higher level grade C in one of the preceding subjects.

GCSE
- Grade B Mathematics

GCE A-Level
- Grade C In two of physics, chemistry, biology, mathematics, or applied mathematics

Combinations not permitted:
- Physics/chemistry with physics or chemistry
- Agricultural science with biology
- Applied mathematics with mathematics

What are advanced materials?
The ability to create new technologies would not be possible without the use of advanced materials. Advanced materials include superconductors, polymers, lasers and optoelectronics and they can be found in applications ranging from computers and electronics, to telecommunications and broadcasting, to airlines and healthcare.

Is this the right course for you?
This course will appeal to you if you are interested in science and have a strong desire to apply your scientific skills to industries and technologies that are shaping the future of the 21st century.

Course overview
This degree will teach you how to use and apply the principles of chemistry and physics to solve practical problems associated with the development of new technologies. To understand how to make, develop, control and use advanced materials it is advisable to have a thorough grounding in both chemistry and physics.

The Freshman years
In the first two years you will follow the science (TR071) programme, taking chemistry, physics and mathematics (pp. 124-125). There will be special tutorials on historical and modern aspects of materials science.
There are approximately 15 hours of lecture and tutorial classes and approximately 6 hours in laboratory classes each week.

The Sophister years
In the Sophister years (three and four), you will study specialised courses in materials physics and chemistry.

The course in the Junior Sophister (third) year includes lectures on solid state physics and chemistry, quantum mechanics, lasers, thermodynamics, electrochemistry, macromolecules, spectroscopy, group theory, materials preparation and microelectronic technology.

The practical course will introduce you to a wide range of techniques for the preparation and characterisation of modern materials.

The Senior Sophister (fourth year) course concentrates on specific topics, including more advanced solid state physics and chemistry, non-linear optics, materials for electronic and optoelectronic devices, conducting and insulating polymers and metal oxides, superconductivity, surface and interface effects, computer simulation and advanced growth techniques.

In the final year you will also carry out a research project, usually abroad in an industrial laboratory, to become familiar with the applications of advanced materials in real-life situations. Many of our students did their projects in highly innovative cutting edge research areas such as nano-technology, and smart and biomimetic materials.

Assessment
You will be assessed by a combination of continuous assessment and end-of-year examinations.

Study abroad
Many students carry out their final year project abroad, mainly in the USA, Australia, France and Germany. This allows Trinity students to develop their practical skills in materials science and to learn about different countries and cultures.

Career opportunities
This degree will provide you with a flexible qualification for employment in cutting-edge high technology industries, such as the semiconductor, polymer and optical industries. There is a great demand for students with these qualifications to keep our economy growing rapidly. There are also opportunities to carry on postgraduate study in advanced materials, a key research area in Trinity College itself.

Did you know?
The new Sami Nasr Institute of Advanced Materials at Trinity is an exemplary interdisciplinary research centre pioneered by physics together with chemistry and electronic engineering.

Further information
www.tcd.ie/Advanced_Materials
Tel. + 353 1 896 1987

Science (common entry)

| COURSE CODE: | TR071 |
| PLACES 2007: | 290 |
| POINTS 2006: | 415* |
| DEGREE AWARDED: | B.A. |
| SPECIAL ENTRY REQUIREMENTS: |
| Leaving Certificate | HD3 or OC3 Mathematics |
| | HC3 In two of: physics, chemistry, biology, mathematics, physics/chemistry, geology, geography, applied mathematics or agricultural science |
| GCSE | Grade B Mathematics |
| Advanced GCE (A-Level) | Grade C In two of physics, chemistry, biology, mathematics, geology, geography or applied mathematics |
| Combinations of subjects not permitted: |
| Physics/chemistry with physics or chemistry |
| Agricultural science with biology |
| Applied mathematics with mathematics |

Course overview
Science is a small word and yet it conjures up the whole spectrum and sum of human knowledge about the natural world. So where do you begin?

It is precisely because of the scope and variety of this field of study that science at Trinity is structured with choice in mind. Courses in the first two years are designed to introduce you to and train you in the fundamental sciences. By the end of the Senior Freshman (second) year you will have moved far beyond the extent of science as it is taught at school and will understand better where your real interests lie. At this point you have the opportunity to focus on one of seventeen specialist areas for your final two years.

Is this the right course for you?
Science at Trinity leaves plenty of room for flexibility and is ideal if you want to explore the many avenues open to you as a scientist. Even if you already know what you want to specialise in, you will find that employers value the benefits of a broad-based scientific training and background.

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

Teaching is by lectures, seminars, tutorials and laboratory classes, so you will become familiar with laboratory practice and the methodology of scientific research from the first year. Smaller seminar classes and group tutorials mean that you will also be able to discuss course work with lecturers and other students in a friendly and informal atmosphere.

Tutorials are given at both basic and advanced levels to explain, expand and support the material presented in lectures.
## Junior Freshman (first year)

**Students take either:**
Mathematics or Mathematical Methods with a combination of subjects from the following:
- Biology
- Chemistry
- Geography
- Geology
- Physics

Note: This is currently under review and may change for 2008 entry.

Mathematics can also be studied as a single honor subject see p. 119

### Mathematics
This course teaches mathematics as a full subject and provides a basic mathematical training suitable for all branches of science.
- Calculus
- Partial derivatives
- Linear algebra
- Differential equations
- Computing
- Probability and statistics

### Biology
Broad-based training in the fundamentals of modern biology.
Topics include:
- Introduction to molecular and cellular biology
- Genetics
- developmental biology
- The biology of lower organisms
- Plant and animal biology
- Ecology

### Geography
Geography topics include:
- Atmospheric and oceanic sciences
- Climate change
- Environmental hazards and disasters
- Geomorphology
- Globalisation
- Nature and society
- Uneven development
- Urbanisation

### Mathematical Methods
A short foundation course in mathematics and computing for first year students not taking mathematics as a full subject. This is a less detailed course that will introduce you to the principles and rules governing scientific investigation. Students who take this course may not take one of the physics degree options in 3rd and 4th years. Topics include:
- Introduction to computing
- Functions, graphs, derivatives, maxima and minima
- Integration
- Matrices, linear equations
- Differential equations

### Chemistry
General introduction to the fundamentals of modern chemistry divided into three disciplines:
- General and inorganic chemistry: stoichiometry, atomic structure, principles of bonding, the Periodic Table, aspects of main group and coordination chemistry
- Physical chemistry: acids and bases, electrochemistry, the solid state, gas laws, thermodynamics, equilibria and kinetics
- Organic chemistry: aliphatic and aromatic functional group chemistry

### Physics
Previous knowledge of physics is not required for this course.
Topics include:
- The Physics of motion
- Physics of sport
- The material world
- Hearing and seeing
- Electromagnetic interactions
- Origins of modern physics
- Exploring the universe

### Physics – Foundation Physics for the Life and Earth Sciences
A foundation course of lectures, practical work and tutorials including the following topics: physics of motion, biomechanics, physics of hearing and seeing, electricity and magnetism and bioelectricity, radioactivity, nuclear physics and related medical applications, heat, pressure and fluids and their biological, geological and medical applications. No previous knowledge of Physics is required.
### Senior Freshman (second year)

Select three subjects from:
Biology I; Biology II or Mathematics; Chemistry; Geography or Physics; Geology

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Biology I: Molecular and Cellular Biology</th>
<th>Chemistry</th>
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</thead>
<tbody>
<tr>
<td>■ Advanced calculus, multiple integrals</td>
<td>■ Fundamentals of biochemistry</td>
<td>Second year courses deepen your knowledge in each of the main areas of the subject.</td>
</tr>
<tr>
<td>■ Fourier analysis</td>
<td>■ Molecular and cellular microbiology</td>
<td>Inorganic chemistry: a study of the solid state and of the main group and transition metal elements and their compounds, including coordination complexes</td>
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<tr>
<td>■ Ordinary and partial differential equations</td>
<td>■ Molecular genetics, genetic analysis</td>
<td>Physical chemistry: chemical thermodynamics, bond properties, basic quantum theory and spectroscopy, colloidal particles and polymers, and kinetics</td>
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<tr>
<td>■ Linear algebra</td>
<td>■ Neurophysiology and neurobiochemistry</td>
<td>Organic chemistry: the chemistry of aromatic compounds, stereochemistry, synthesis of organic compounds and organic spectroscopy</td>
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<tr>
<td>■ Probability and statistics</td>
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<td>■ Computation (or mechanics for physics students)</td>
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| Biology II: Organisms and Environment                                      |                                           |           |
| ■ Evolution                                                                |                                           |           |
| ■ Plants and people                                                        |                                           |           |
| ■ Vertebrate form and function                                             |                                           |           |
| ■ Ecology                                                                  |                                           |           |
| ■ Behaviour                                                                |                                           |           |

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<thead>
<tr>
<th>Geography</th>
<th>Geology</th>
<th>Physics</th>
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<tr>
<td>Topics include:</td>
<td>Theoretical topics range from the arrangement of atoms in crystals to the architecture of mountains; from the study of ancient life to the nature of the Earth’s deep interior. Technical skills include reading geological maps, the examination of rocks using the microscope, and the application of basic physics to solving geological problems.</td>
<td>Second year develops topics from the first year:</td>
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<tr>
<td>■ Cultural geography</td>
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<td>■ Special relativity</td>
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<td>■ Economic geography</td>
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<td>■ Oscillations</td>
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<td>■ Historical geography</td>
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<td>■ Physical optics</td>
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<tr>
<td>■ Natural and human-modified environmental processes and systems</td>
<td></td>
<td>■ Thermodynamics</td>
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<tr>
<td>■ Geographical methods introduction to mapping, computer-based geographical information systems (GIS), statistics, surveying and satellite remote sensing.</td>
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<td>■ Quantum physics</td>
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### Junior and Senior Sophister (third and fourth years)

Select one of:

<table>
<thead>
<tr>
<th>Biochemistry with cell biology p. 126</th>
<th>Genetics p. 132</th>
<th>Physics p. 138</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry with immunology p. 127</td>
<td>Geography p. 133</td>
<td>Physics and astrophysics p. 138</td>
</tr>
<tr>
<td>Biochemistry with structural biology p. 128</td>
<td>Geology p. 134</td>
<td>Physics and computer simulation p. 138</td>
</tr>
<tr>
<td>Botany p. 129</td>
<td>Microbiology p. 135</td>
<td>Physiology p. 139</td>
</tr>
<tr>
<td>Chemistry p. 130</td>
<td>Molecular Medicine p. 136</td>
<td>Zoology p. 140</td>
</tr>
<tr>
<td>Environmental sciences p. 131</td>
<td>Neuroscience p. 137</td>
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</tr>
</tbody>
</table>

### Study abroad

You will have the option to study abroad in the Junior Sophister (third) year in most science courses. In the past, for example, students have studied in the USA, Canada, Australia, and in a variety of universities throughout Europe. Optional language classes in French, Spanish, Italian or German are available to you in first and second year (see p. 18) to facilitate this. Some departments will also actively encourage you to spend your summer months working abroad in a research laboratory.

### Further information

[www.tcd.ie/Science](http://www.tcd.ie/Science)
Tel: + 353 1 896 1970
Students who wish to study biochemistry with cell biology apply to the science degree (TR071) and may select biochemistry with cell biology as their specialist area for the 3rd and 4th years.

Junior Freshman (first year) prerequisites: Chemistry + biology or physics
Senior Freshman (second year) prerequisite: Biology I
For details of the first two years of the science course, including entry requirements, see p. 123.

Fluorescence microscopy reveals the presence of the flagellum (green), digestive organelle (red) and the nucleus (blue) in African trypanosomes that cause human sleeping sickness (Image courtesy of the Molecular Parasitology Group, School of Biochemistry and Immunology).

What is biochemistry with cell biology?
The basic building block of life is the cell, while biochemistry is the study of the chemical basis of life. Biochemistry with cell biology focuses on how the basic unit of life functions at molecular and higher levels. The unique perspective of the cell biologist is the spatial and temporal organisation of processes essential for life. This subject area is also an integral part of medicine, as it helps us to understand the mechanics of how disease and disorders occur. It is also an essential component of biotechnology, where processes for the production of foods and fuels, and enzymes or other proteins are developed.

What will you study?
The courses in the Junior Sophister (third) year provide a broad knowledge and understanding of the fundamentals of biochemistry and cell biology – from the behaviour of simple cells to the complex development and organisation of the human being.

Topics include:
- Protein science
- Membrane biology
- Cellular regulation
- Immunology
- Enzyme catalysis
- Eukaryotic gene structure

A research project in the area of either biochemistry or cell biology forms an essential part of the Senior Sophister (fourth) year. Examples of research areas from which topics may be chosen include the cell cycle and cell division, cytoskeleton, developmental biology, cancer, neurobiology, molecular and cellular parasitology, viral evasion mechanisms, cell signalling, metabolism, the immune system and control of cell death.

Career opportunities
This course equips you to work in all major aspects of biochemistry, cell biology and molecular biology. You may decide to continue your studies at the postgraduate level and subsequently take up a career in industrial, medical or academic research. Alternatively, you will be qualified to work in hospitals and commercial laboratories dealing with biotechnology, food science, pharmaceuticals or diagnostics. Cell biology is also a highly visual science and graduates benefit from this training in terms of analytical and presentational skills. Consequently, recent graduates have also opted for careers in communications, information systems, teaching and management, and have even crossed over into areas such as accountancy, law and merchant banking, where there is a demand for the skills developed in the biological and chemical sciences.

Further information
www.tcd.ie/Biochemistry
Tel: + 353 1 896 1608
Biochemistry with immunology

Students who wish to study biochemistry with immunology apply to the science degree (TR071) and may select biochemistry with immunology as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisites: Chemistry + biology or physics

Senior Freshman (second year) prerequisite: Biology I

For details of the first two years of the science course, including entry requirements, see p. 123.

What is biochemistry with immunology?

This is a degree in which students become expert in the complementary disciplines of biochemistry and immunology. Biochemistry is the study of all processes involved in living organisms. It encapsulates how cells replicate, carry out all their specialised functions and then die in an orderly manner. It seeks to define the basis for different diseases and medical disorders. Immunology is one of the fastest and most exciting growth areas of biological science and involves studying the molecules and cells of the body that are involved in recognising and fighting infection and disease. Research in immunology has helped in the development of new vaccines and new therapies for diseases, such as rheumatoid arthritis, multiple sclerosis and Crohn’s disease. Trinity College has a world-wide reputation for excellence in immunology research and it is a recognised strategic strength of TCD. As there is also a lot of interest in immunology from the pharmaceutical sector, it is anticipated that there will be a high demand for skilled graduates into the future.

What will you study?

In the Junior Sophister (third) year you will share many of your courses with other students of biochemistry, particularly in the areas of cell and molecular biology.

Immunology topics covered include:

- Core concepts in immunology
- Cells and molecules of the immune system
- Infectious diseases and vaccines
- Autoimmunity, allergies and cancer

Additional topics include:

- Protein Science
- Gene Regulation
- Membrane biology
- Microbiology and virology

In the Senior Sophister (fourth) year you will carry out a research project within one of the department’s active immunology research groups and also cover specialist topics in both biochemistry and immunology.

Career opportunities

On completion of this course you will be qualified to work in all areas of biochemistry and/or immunology. Given the exciting developments in immunology currently, graduates of this course will be ideally suited to continue studying at postgraduate level and subsequently take up a career in industrial, medical or academic research. Some graduates will work in hospital and commercial laboratories. However, previous graduates have also gone on to study medicine or pharmacy, and even crossed into areas such as teaching, information systems, accountancy, and management.

Further information

www.tcd.ie/Biochemistry
Tel: + 353 1 896 1608
Biochemistry with structural biology

Students who wish to study biochemistry with structural biology apply to the science degree (TR071) and may select biochemistry with structural biology as their specialist area for the 3rd and 4th years.

Junior Freshman (first year) prerequisites: Chemistry + biology or physics

Senior Freshman (second year) prerequisite: Biology I

For details of the first two years of the science course, including entry requirements, see p. 123.

What is Biochemistry with structural biology?

Cells form the smallest organisational unit of life, while biochemistry is the study of the chemical basis of life. The goal of structural biology is to characterise the 3-dimensional shape and chemistry of molecules (proteins, lipids, DNA and RNA) that perform the various functions that are essential for life. The function of a molecule is related to its shape, and this was demonstrated in dramatic fashion by Watson and Crick when they proposed a model of DNA and the mechanism for genetic inheritance. More recently, in 2006, Roger Kornberg at Stanford University won the Nobel prize for determining how DNA is replicated in living cells by protein machines. Knowledge of the structure of proteins implicated in human disease is also useful for the design of new drugs. All major pharmaceutical companies have significant investment in structural biology to help aid their pipeline of new drugs and therapies for cancer, infectious diseases, and other pathological conditions.

Neuraminidase enzyme from influenza: Knowledge of the 3D shape of this viral protein helped in the design of a drug to fit inside a surface pocket and disrupt its function. This strategy may be prove useful in combating the bird virus strain H5N1.

Graduate profile

Name: John Rouse, B.A. (Biochemistry)
Job Title: Principal Investigator/Scientist
Graduated: 1993

Why did you choose TCD?

At the time I applied, TCD had the reputation for being the best university in the whole of Ireland – and it still does! The average class size in the junior (third) and senior (fourth) years in Natural Sciences, when students start to study a "specialised" topic, is much smaller than in other universities. This means it is easier to discuss interesting topics during lectures, and to ask questions. In addition, the choice of disciplines available for specialising in was brilliant, and is even greater these days. These factors together with the course description, which sounded very interesting, led me to choose TCD. And it turned out to be the right decision – 100%! Also, it’s a lovely place.

What did you think of your time at TCD?

It was pretty amazing. In the first two years, classes are big and you have the chance to meet a lot of people; I still keep in touch with people I met at that stage. If you are really interested in science then the first years are incredible because at last, you can scratch past the surface of really interesting topics only alluded to in secondary school. You learn about things, weird and wonderful that you didn’t even know existed! I’m now a biochemist and I really only discovered this discipline in my second year at TCD, I didn’t really know about it before. At the end of the second year, you choose a specialised subject - biochemistry in my case - and become part of the relevant department. That’s nice because you kind of enter in a more intimate environment, like a family. Lectures in third and fourth years are amazing because you get to learn about your favourite subject in great detail, I couldn’t get enough! One set of lectures I heard in fourth year inspired me to start working on a topic that I still work on today.

Where did you go next?

I went to do a Ph.D. – a doctorate – in biochemistry at the University of Dundee, because it is one of the best research centres in the world. I spent three great years there and was lucky enough to be one of the first people to discover a new enzyme in cells that we subsequently found to be important for fighting infection. When I finished my Ph.D., I went to do post-doctoral research at the University of Cambridge, UK. In 2002, I went back to Dundee to set up my own research laboratory and that’s where I have been ever since. These days we are trying to understand what goes wrong in cells before they turn cancerous and how cells deal with DNA damage.

How did being at TCD help your career?

TCD graduates are in serious demand in Dundee and in many other universities that I have visited around the world. The extremely high standard and depth of training at TCD is very highly regarded and a high percentage of graduates have gone on to do very well in science. These days, more and more people have primary degrees – some are of a higher standard that others. There is a more competition than ever for research posts and other jobs but a degree from TCD really does provide graduates with a major advantage.
What will you study?
The courses in the Junior Sophister (third) year provide a broad knowledge and understanding of the fundamentals of biochemistry and structural biology – from the behaviour of simple cells to the complex development and organisation of the human being.

Topics include:
- Proteomics
- Molecular immunology
- Protein chemistry
- Bioenergetics
- Enzyme catalysis
- Eukaryotic gene structure

A research project in the area of either biochemistry or structural biology forms an essential part of the Senior Sophister (fourth) year. Examples of research areas from which topics may be chosen include the structural biology of cell signalling, rational drug design, cytoskeleton, cancer, neurobiology, molecular and cellular parasitology, viral evasion mechanisms, cell signalling, metabolism, the immune system and control of cell death. The School of Biochemistry and Immunology is a leading institute in Ireland for 3-dimensional protein structure determination, with state-of-the-art equipment in X-ray crystallography and nuclear magnetic resonance (NMR) spectroscopy techniques. Students will be introduced to these techniques through lectures and practicals, and Trinity College also maintains a ‘Visualisation Facility’, housed in a lecture hall, that provides unparalleled opportunities for exploring the 3-dimensional shape of the molecules of life.

Career opportunities
This course equips you to work in all major aspects of biochemistry, and molecular biology. You may decide to continue your studies at the postgraduate level and subsequently take up a career in industrial, medical or academic research. Alternatively, you will be qualified to work in the pharmaceutical industry in the area of structure-based drug design. Recent graduates have also opted for careers in teaching, information systems, communications and management, and have even crossed over into areas such as accountancy, law and merchant banking, where there is a demand for the skills developed in the biological and chemical sciences.

Further information
www.tcd.ie/Biochemistry
Tel: + 353 1 896 1608

Botany
Students who wish to study Botany apply directly to the science degree (TR071), and study Biology along with other subjects for two years, they may then select to specialise in Botany in their third and fourth year.

Junior Freshman (first year) prerequisite: Biology
Senior Freshman (second year) prerequisite: Biology II
For details of the first two years of the science course, including entry requirements, see p. 123.

What is botany?
Botany is the scientific study of plants – in the field, in the botanic garden and in laboratory situations. Plants include the largest forest trees, single-celled algae of fresh and marine waters, multi-cellular seaweeds, and yeasts and moulds.

The study of plants is of vital importance; they are the source of 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. Human manipulation of plants in the future will provide food and energy for an expanding human population whilst conserving the biodiversity of living organisms and integrity of habitats.

What will you study?
Trinity specialises in the study of the evolution and conservation of all forms of plant life and their response to global climate change ecology.

Courses include:
- Plant biodiversity and conservation
- Woodland and grassland ecology
- Plant physiology and global climate change
- Tropical ecology
- Plant molecular biology
- Pollination biology

The laboratories and greenhouses on Trinity campus, the College Botanic Garden and the internationally recognized Herbarium support teaching. All courses are derived from active research lines and emphasis is placed on your own research project in the Senior Sophister (fourth) year.

All students are given the opportunity to participate in field trips which alternate between Europe and the Tropics.

Career opportunities
When you graduate you can move directly into a career related to plant biology, such as nature conservation, environmental consultancy or agricultural research. Alternatively, you might decide to go on to take a higher degree in Trinity or elsewhere. The skills you acquire in the Sophister (third and fourth) years are also widely applicable in business and industry.

Further information
www.tcd.ie/Botany
Tel: + 353 1 896 1274
3rd and 4th year undergraduate students on a recent field course to Thailand photographed in the foothills of Phu Kradung.

Graduate profile

Jennifer C. McElwain

Jennifer C. McElwain graduated with a B.A. in Botany from Trinity College Dublin in 1993. Although pursuing Botany was not an expected path on entering Trinity she very quickly became absolutely fascinated with all aspects of plant biology after being taught that the vegetation history of Ireland could be traced over the past two million years of Earth history by simply using plant pollen preserved in Irish bogs and lakes. Through later lecture courses specialising in Botany she discovered the economic value and diversity of plants, how plants are adapted to extreme environments, the role of plants in modulating regional and even global climate and the potential use of plant fossils in reconstructing past atmospheric composition. Botany at Trinity was a tremendously rewarding experience that provided the training and inspiration to pursue a career in science. She went on to graduate with a Ph.D. in Paleobotany (the study of ancient plants) in 1997 from Royal Holloway College, University of London and held two post doctoral positions at the University of Sheffield before taking up the position of Assistant, and later, Associate Curator of Paleobotany at the Field Museum of Natural History in Chicago between 2000 and 2006. She took up her current position as Lecturer in Plant Palaeobiology and Palaeoecology in UCD’s School of Biology and Environmental Science in 2006. She remains a Research Associate of the Field Museum and an Adjunct Associate Professor at Northwestern University, Evanston, USA.

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

Senior Freshman (second year) prerequisite: Chemistry

For details of the first two years of the science course, including entry requirements, see p. 123.

Chemistry is also an integral part of the following courses:

TR074: Chemistry with molecular modelling, see p. 101.
TR075: Medicinal chemistry, see p. 121.
TR076: Physics and chemistry of advanced materials, see p. 122.

What is chemistry?

Chemistry is a central science. Without it, many modern disciplines such as materials science, molecular biology and environmental science would not be possible. Modern chemistry and chemical technology are vital and very major contributors to modern lifestyle in areas as diverse as food production, health and medicines and communications. Chemists are molecular engineers involved in developing novel target compounds for applications as diverse as pharmaceuticals and drugs, photo- and electro-responsive materials, and polymers and catalysts.

What will you study?

Junior Sophister (third year) courses will cover the three main disciplines:

- **Inorganic chemistry** – organometallic chemistry, catalysis, group theory, bio-inorganic chemistry, spectroscopic methods, identification and characterisation of compounds, inorganic polymers
- **Organic chemistry** – organic synthesis, spectroscopy, stereochemistry, heterocyclic chemistry, reaction mechanisms, amino acid and peptide synthesis
- **Physical chemistry** – macromolecules and interfacial chemistry, spectroscopy, quantum chemistry, kinetics, electrochemistry, thermodynamics, analytical chemistry, chemisorption and catalysis

In addition there are courses on environmental chemistry, computer programming, maths and physics, and you have the option of taking complementary courses from other disciplines.

Lectures are complemented by laboratory experimental classes where you will gain experience in more sophisticated preparative chemical techniques and will also be able to carry out your own spectroscopic analyses and computer-based modelling.

In the Senior Sophister (fourth) year, lectures consist of core fundamental material and an extensive range of optional courses that allow each student to develop her/his own particular interests. The practical component of this year is an extended
research project which you will carry out from October to December. This may be conducted in Trinity or in an academic laboratory abroad.

Study abroad
The School of Chemistry has exchange agreements with a large number of other universities where students carry out their final year research projects, from October to December. Centres where students have completed their research projects in recent years have included Vienna, Berlin, Bologna, Toulouse and Utrecht in Europe and McGill and Duke Universities in North America. The areas of research cover modern chemical interests such as cancer chemotherapy and DNA chemistry, through device fabrication and materials processing, to homogeneous catalysis and supramolecular chemistry.

Assessment
You will be assessed by a combination of continuous assessment and end-of-year examinations.

Career opportunities
The chemical and pharmaceutical industries, which contribute some 20% to Ireland’s exports, are excellent employers of Trinity’s chemistry graduates. Former graduates of chemistry are working in companies such as Henkel, Wyeth, Glaxo-Smith-Kline and Bristol Meyers Squibb. Patent offices, government advisory and information services, libraries, public analytical laboratories, schools and third level institutions also employ chemists. Or you may decide to carry out postgraduate research leading to a higher degree either in Trinity or in another University in Ireland or abroad. Other equally successful routes graduates have taken in the past include careers in the business and financial services sectors, and in management.

Did you know?
As well as offering a broad choice of topics for study in the traditional areas of chemistry (Organic, Inorganic and Physical chemistry), the School of Chemistry has research strengths in the cutting edge areas of medicinal and biological chemistry, materials and nano-chemistry and computational chemistry. Students can select a range of lecture courses from topics as diverse as the chemistry of cancer, biological polymers and synthetic materials, metal chelation therapy, catalysis and molecular recognition and synthetic receptors, providing fascinating illustrations of the basic modes of chemical reactivity. These topics are used to review important chemical principles, to gain insight into the history of discovery, and to become acquainted with cutting-edge research that fills the pages of the scientific literature and occasionally enters those of the popular press.

Further information
www.tcd.ie/Chemistry
Tel: + 353 1 896 1726/2040

Environmental science
Students who wish to study Environmental Sciences apply directly to the science degree (TR071) and may select Environmental Science as their specialist subject for the third and fourth years.

Junior Freshman (first year) prerequisite: Biology
Senior Freshman (second year) prerequisite: Biology II
For details of the first two years of the science course, including entry requirements, see pp. 123.

What is environmental science?
Environmental Science is by its nature a multidisciplinary research discipline – a study of the various interactions between the biological, chemical and physical components of our environment. Environmental scientists have training that is similar to other physical or life scientists, but is specifically applied to the environment. A broad scientific knowledge is required which may also involve an understanding of economics, law and the social sciences.

The undergraduate degree course offered by the School of Natural Science has been designed to provide for the needs of students with an interest in this rapidly developing academic and professional field. The programme comprises specially designed courses plus suitable courses from contributing departments. There should be ample choice within the listed optional courses for a selection which reflects a particular student’s interests.

Field work is a core component of the course structure. Students attend three mandatory field courses in their Junior Sophister (third) year (an introductory field course in Fresher’s week, a Mediterranean field trip over the Hilary break, and a Freshwater Biology field trip in Trinity term). In addition, optional courses offered by Zoology allow the possibility of students to attend field courses in Marine Biology and Terrestrial Ecology.
What will you study?
Teaching is by lecture, seminar, practical laboratory and fieldwork classes in areas such as:

- Environmental management
- Planning
- Water technology
- Global environmental change
- Environmental chemistry

Joint modules with other disciplines include bioindicators and pollution, biometeorology, groundwater quality and ecology. In the Senior Sophister (fourth) year you will research and write a thesis on an environmental project. In the past, students have undertaken projects on air pollution, waste management, restoration ecology, water quality, habitat management and greenhouse gas emissions.

Career opportunities
As a graduate in this area you will be able to take advantage of the worldwide demand generated by increasing environmental awareness. Many graduates move straight into environmental consultancy or are working with regulatory authorities and County Councils. The course also provides an ideal background for taking a higher degree or pursuing a career in business or industry.

Further information
www.naturalscience.tcd.ie/CENV00/index.php
Tel: + 353 1 896 1274

Genetics
Students who wish to study plant, human and other animal genetics apply to the science degree (TR071) and may select genetics as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisites: Chemistry + physics or biology

Senior Freshman (second year) prerequisite: Biology I

For details of the first two years of the science course, including entry requirements, see p. 123.

Alternatively, to study human genetics exclusively, students should apply to course TR073 – Human genetics see p. 117.

What is genetics?
Genetics is the science of heredity. It is central to biology, and is increasingly important in modern medicine. Reflecting this, the genetics course covers a wide field and all major groups of organisms.

What will you study?
Courses cover the molecular genetics of bacteria and viruses, man, and other animals and plants.

- Developmental genetics: investigates how different genes in different cells control the construction and growth of an organism.
- Population genetics: deals with genetic variation in populations and the role of this variation in evolution.
- Neurogenetics: studies how genes control the growth and interconnection of neurons in the brain.
- Bioinformatics and evolutionary genetics: investigates evolutionary relationships between organisms and the processes that drive evolution by mining the DNA sequence databases.

Other areas you will study include plant genetics, quantitative genetics, bacterial genetics and medical genetics, where molecular and analytical approaches are used to investigate the basis of inherited human diseases such as hereditary blindness, cystic fibrosis, and certain types of cancers.

In the Senior Sophister (fourth) year, you will be able to specialise in areas of particular interest, and will carry out an original research project in an area such as: hereditary blindness, cell death, bacterial stress responses or plant genetics. Specialist lecture courses include cancer genetics, genetics of vision, behavioural genetics and human evolutionary genetics.

Career opportunities
Many genetics graduates go on to careers in academic or industrial research beginning with postgraduate study. Opportunities also exist in biotechnology and pharmaceutical companies, agricultural organisations, medical or clinical diagnostic laboratories, public health and epidemiology programmes, and in teaching. Genetic counselling is a rapidly expanding field that might also interest you. Alternatively, you may go into a career such as patent law, science journalism, accountancy or banking.

Further information
www.tcd.ie/Genetics
Tel: + 353 1 896 1140
Geography

Students who wish to study geography apply to the science degree (TR071) and may select geography as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisite: Geography

Senior Freshman (second year) prerequisite: Geography

For details of the first two years of the science course, including entry requirements, see p. 123.

Alternatively, geography may be combined with one other subject from an arts or social science discipline within the two-subject moderatorship (TSM) programme. TSM is a joint honor programme. Both subjects are normally studied for three years and one or both subjects in the fourth year. An honors degree is awarded in both subjects. For subjects that combine with geography, see p. 30.

What is geography?

Geography deals with the distribution of physical and human features over the earth’s surface, with the relationships between people and between people and their environment, and with the nature of landscapes and places: as the actor, author and journalist Michael Palin has recently opined “To really understand the world, you need to get under the skin of the people and places. In other words, learn about geography”. Geographers have made a major contribution to understanding the nature of the world and the processes of change that impact on environments and societies, and how these processes and their impacts have changed over time.

Course content

The Junior Freshman (first year) Introduction to Geography course (p. 124) aims to give a flavour of the breadth of geography, and in particular those aspects of the discipline that are covered in Senior Freshman (second) and Sophister (third and fourth) years. Students generally attend two hours of lectures per week. In addition, one seminar per week is attended for seven weeks.

The Senior Freshman geography courses build on material covered in the first year, examining issues relating to cultural, economic and historical geography, and to natural and human-modified environmental processes and systems. In addition, the Senior Freshman courses Geographical methods and Geographical methods – practicals provide an introduction to mapping, computer-based geographical information systems (GIS), statistics, surveying and satellite remote sensing. Senior Freshman courses in geography are supported by fieldwork and tutorials.

In the Sophister (third) year, students take three compulsory courses:
- Introduction to research
- History and philosophy of geography
- Residential field course (usually held overseas)

In addition you will be able to choose from a wide range of specialised, research-based courses, including courses offered by related disciplines such as botany, economics, geology and sociology.

Optional courses currently being offered include:
- Climate change
- Coastal processes and management
- Cold climate geomorphology
- Comparative historical geography
- Development studies
- Environmental change
- Environmental conflicts
- Globalisation and development in Africa
- Historical geography of Ireland
- Statistical applications
- Transportation planning
- Urban functions and regeneration
- Water resources

Several of the Sophister year options require field and laboratory work.

Assessment

You will be assessed in all years by a combination of continuous assessment and end-of-year examination.

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

Study abroad

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

Career opportunities

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

Did you know?

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

Further information

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

Students who wish to study geology apply to the science degree (TR071) and may select geology as their specialist area for the 3rd and 4th years.

Senior Freshman (second year) prerequisite: Geology
For details of the first two years of the science course, including entry requirements, see p. 123.

What is geology?
Geology is the science of the Earth. It investigates the composition and evolution of this dynamic planet and its living organisms. It embraces the study of such diverse topics as dinosaurs, volcanoes, meteorites and earthquakes. It also deals with the origin and concentration of the materials on which our society is based.

What will you study?
For details of the topics covered in the Junior and Senior Freshman (first and second) years see pp. 124-125. Fieldwork is an essential and integral part of sophister geology.

In the Junior Sophister (third) year a thorough grounding is provided in all major branches of geology. You will learn how each of the rocks contain information on the processes that formed them and the environment in which this took place. You will also study their response to enormous forces in the Earth which cause them to bend, buckle and crack; the measurement of geological time; investigation of the subsurface; and the evolution of life. You will learn skills in computing, statistics and data presentation.

In the Senior Sophister (fourth) year you will take four compulsory courses:
- Project (recent projects incorporating fieldwork have been based in various parts of Europe and also in North America)
- Fieldwork
- Geological literature and seminars
- Geology of Ireland and economic geology
You will also select six optional subjects from a wide range covering both academic and applied areas of geology. Optional subjects include:
- Fossil fuels
- Geodynamics
- Hydrogeology and groundwater quality
- Global igneous activity
- Climate change
- Metamorphism and the early solar system
- Palaeontology
- Cold climate geomorphology
- Sedimentary systems
Teaching ends after two terms followed by a field course and revision.

Career opportunities
Recent graduates have found professional career opportunities with oil and mining companies, civil engineering firms, geological and environmental consultancies, organisations based in computing and information systems, and government geological surveys. 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.

Did you know?
As a student of geology, you will undertake a long field trip to a tectonically active region in Spain.

There are opportunities for students to spend part of their sophister course abroad; we have formal agreements with Bern and Clermont-Ferrand, but other locations are also possible.

Further information
www.tcd.ie/Geology
Tel: + 353 1 896 1074
Microbiology

Students who wish to study microbiology apply to the science degree (TR071) and may select microbiology as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisites: Chemistry + physics or biology
Senior Freshman (second year) prerequisite: Biology I
For details of the first two years of the science course, including entry requirements, see p. 123.

What is microbiology?
Microbiology investigates the life processes of microorganisms (such as protozoa, bacteria, fungi and viruses), their beneficial or detrimental effects on plants, animals, man and the environment, and their biotechnological uses. A microbiologist studies microbial processes at the cellular and molecular level.

What will you study?
Topics include:
- Microbial and molecular genetics
- Bacterial physiology
- Biomembranes and cell surfaces
- Virology
- Molecular biotechnology
- Microbial genome structure & gene regulation
- Microbial pathogenicity
- Applied and environmental microbiology
- Molecular protozoology
- Molecular biology of yeasts
- Medical and clinical microbiology
- Antimicrobial and antibiotic agents

Microbiology is closely related to microbial genetics and biochemistry and so you will take complementary courses from these disciplines. Laboratory training covers the safe handling of pathogenic microorganisms, separation of their components and products, research technologies, genetic analysis and biotechnological techniques.

In the Senior Sophister (fourth) year, all students take a core course that covers molecular and cell biology, microbial pathogenicity, and applied and environmental microbiology. Optional courses review selected topics at the cutting edge of knowledge and cover such diverse areas as:
- Gene regulation and expression
- Bacterial cell surfaces
- Gene expression in eukaryotes

Career opportunities
Graduates in microbiology find employment in pharmaceutical and medical research laboratories, as quality control officers in the preparation of drugs, in food processing and packaging, or in public utilities. Such employment may involve working with the newer biotechnologies and using microorganisms for the commercial production of drugs, enzymes, antibiotics, vaccines and agricultural products. Many graduates also go on to study for a higher research degree.

Further information
www.tcd.ie/Microbiology
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 + biology or physics

Senior Freshman (second year) prerequisite: Biology I

For details of the first two years of the science course, including entry requirements, see p. 123.

What is molecular medicine?
Molecular medicine is a new degree programme offered by Trinity College that has been inspired by the changing needs of medical research. It is a unique collaboration between the School of Biochemistry and Immunology and the School of Medicine, to create a science degree that has a strong emphasis on translational research, i.e. the introduction of medical research advances into direct patient care.

Molecular medicine at Trinity College is the only such degree programme available in Ireland. Students will be given lectures at the cutting edge of our current scientific knowledge in addition to lectures from clinicians at St. James’s Hospital that will focus the knowledge towards application in the clinic.

One example of the success of molecular medicine is the drug Gleevec®, which was approved in 2001 by the food and drug administration (FDA) for the treatment of specific forms of leukaemia. This drug was a huge advance in medicine because it could specifically target cancer cells and leave normal healthy cells alone. Patients that take Gleevec® only experience mild side-effects, which contrasts greatly to other typical anti-cancer therapies that are often quite toxic to the patient.

What will you study?
In the Junior Sophister (third) year, the molecular medicine course will provide a broad knowledge and understanding of various fundamental science disciplines, biochemistry, cell biology, immunology, genetics and microbiology and some topics unique to the molecular medicine course as listed below:

Molecular medicine topics include:
- Clinical aspects of cancer and infection
- Stem cells and gene therapy
- Drug adsorption and metabolism

Science topics include:
- Enzymology
- Membrane function
- Cellular regulation
- Immunology
- Protein chemistry
- Eukaryotic gene structure

A research project in the area of biochemistry, cell biology, immunology or clinical medicine forms an essential part of the Senior Sophister (fourth) year. Students will have a choice to perform their project in the School of Biochemistry and Immunology, on the main College campus or in the Department of Clinical Medicine, St. James’s Hospital. Examples of research areas from which topics may be chosen include the cell cycle and cell division, cytoskeleton, developmental biology, cancer, neurobiology, molecular and cellular parasitology, viral evasion mechanisms, cell signalling, metabolism, the immune system, genetic diseases, and control of cell death.

Career opportunities
Graduates of this course will have the ability to work in all major aspects of molecular biology, biochemistry, and cell biology. You may decide to continue your studies at the postgraduate level and subsequently take up a career in medical or academic research. For example, it is possible to continue your studies in molecular medicine towards a Masters or Ph.D. at the Institute of Molecular Medicine, Trinity College (www.tcd.ie/IMM/education.php). Alternatively, you will be qualified to work in hospitals and commercial laboratories dealing with biotechnology, food science, pharmaceuticals or diagnostics. Other possibilities include such careers as teaching, information systems, communications and management, law, and banking, where there is a demand for the analytical skills developed in the science and medical disciplines.

Further information
www.tcd.ie/Biochemistry
Tel: +353 1 896 1608
Neuroscience

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

Junior Freshman (first) year prerequisites: Chemistry + biology or physics
Senior Freshman (second year) prerequisites: Biology I, biology II

For details of the first two years of the science course, including entry requirements, see p. 123.

What is neuroscience?

Neuroscience is the discipline concerned with the scientific study of the nervous system in health and disease. It probes the intricate machinery of the nervous system in an attempt to understand how we think, move, perceive, learn and remember. Research in the neurosciences is of considerable importance in medicine, considering the debilitating and costly effects of neurological and psychiatric disease. In this regard, a major goal of modern neuroscience research is to elucidate the underlying causes, and to produce more effective treatments for major brain diseases such as Multiple Sclerosis, Alzheimer’s Disease, Parkinson’s Disease, Schizophrenia and Depression.

What will you study?

Neuroscience links neurobiology with cognitive science, and as a result modules are provided by several Schools within several faculties. The course involves in-depth instruction in the fundamentals of modern molecular and cellular biology, as well as on the structure and operation of the nervous system.

Other modules focus on the development of the nervous system, its response to injury and disease, the relationship of the brain to behaviour, imaging the brain, and the drug treatment of brain disorders. You will also be trained in scientific methodology and experimental design, data handling and research skills.

Junior Sophister (third) year courses include:

- Introduction to Neuroscience
- Neuroanatomy
- Neurophysiology I
- Neurochemistry I
- Introduction to Neurogenetics
- Developmental Biology
- Cellular and Molecular Physiology
- Biochemistry and Immunology
- General Principles of Pharmacology
- Applied Laboratory Techniques
- Research Skills

Senior Sophister (fourth) year courses include:

- Neurophysiology II
- Neurochemistry II
- Neuroimmunology and Experimental Neuropathology
- Neuropharmacology
- Neuropsychology
- Neurogenetics
- Journal club

An important part of your final year is a major research project that is carried out in one of the several neuroscience research groups within Trinity College Institute of Neuroscience (www.tcd.ie/neuroscience). The research project will be preceded by a literature review, and will lead to a dissertation.

Research projects are currently available in the following research areas: Neurobiology of Alzheimer’s disease, Neurotoxicity of MDMA (“Ecstasy”) and cannabis, Neurobiology of memory and learning, Neuroinflammation, Neurobiology of Parkinson’s disease, Neurobiology of depression, Human sleep research.

Career opportunities

As a graduate of neuroscience, you can expect to find employment in a wide range of jobs, using your general scientific training as well as your specialist skills (some recent graduates are now employed by Wyeth Biopharma, Abbott and Quintiles).

You may also study for a higher degree in neuroscience, biological or psychological research, and pursue a research career in an academic, government, pharmaceutical, biotechnology or medical research organisation (some recent graduates are now employed by Trinity College Institute of Neuroscience and Harvard Medical School). If you do not want to pursue a research career, the course provides transferable skills suitable for a wide variety of careers in teaching, business, management and industry. Some graduates also go on to take professional degrees in medicine, speech therapy or allied health related sciences.

Further information

www.tcd.ie/Neuroscience
Tel: + 353 1 896 8484

Preparing for an MRI scan in Trinity College Institute of Neuroscience
Physics, physics and astrophysics, physics and computer simulation

Students who wish to study physics, physics and astrophysics, or physics and computer simulation apply to the science degree (TR071) and may select one of these three courses as their specialist subject for the 3rd and 4th years.

Junior Freshman (first) year prerequisites: Mathematics, physics
Senior Freshman (second) year prerequisites: Mathematics, physics
For details of the first two years of the science course, including entry requirements, see p. 123.

Physics is also an important part of the following courses:
TR035: Theoretical physics, p. 141.
TR076: Physics and chemistry of advanced materials, p. 122.

Physics

Physics explores our universe in all its diversity – from particles to planets, from crystals to chaos, from quanta to quasars and from superstrings to superconductors. Its applications are to be found in modern communications, in computers, lasers and many other technologies of vital importance. A physics degree will help you develop flexible skills in theory, data analysis and instrumentation.

Physics at Trinity enjoys a worldwide reputation, and provides an exceptionally stimulating environment for study and for subsequent postgraduate research. In the Senior Sophister (fourth) year you will carry out a three-month research project in a modern research laboratory either in Trinity or at another institution in Ireland or abroad, and many find this part of the course particularly rewarding.

Studies in physics cover experimental and theoretical training in core subjects, including:
- Mechanics and special relativity
- Electromagnetism
- Quantum mechanics
- Laser and modern optics
- Solid state physics

You will also take specialist courses in areas such as nanoscience, astrophysics, nuclear and elementary particle physics, superconductivity and computer modelling.

Physics and astrophysics

Since before the dawn of human civilisation man has gazed in wonder at the night sky. The exploration of our solar system and the universe beyond continues to fascinate us. Astrophysics is still a major part of human endeavour in science.

At the end of the Senior Freshman (second) year, you may choose to study for a degree in physics and astrophysics by substituting roughly one quarter of the general physics courses with astrophysics courses in the final two years.

In the third year the astrophysics courses range over modern astronomical instrumentation, spectroscopy, space plasmas, stellar evolution, galaxies and an introduction to general relativity and modern cosmology. There is hands-on experience of astrophysical observation in the third year laboratory, using optical and radio telescopes.

In the final year astrophysics lectures provide a more in-depth study of our own solar system, planetary systems around other stars, interstellar matter and galaxies. There is also a focus on modern developments in astronomy, such as dark matter, black holes and supernovae. Final year students carry out either a physics or an astrophysics research project with the opportunity of working at an observatory in Ireland, UK, Canary Islands or Hawaii.

Physics and computer simulation

Computer simulation is widely used by physicists to gain a deeper understanding of experimental data and theoretical concepts. Simulation ‘experiments’ can be conducted and solutions to complex equations obtained by numerical techniques. Familiar examples of such experiments and complex equations include weather forecasting and climate change and the equations used to predict them. Computer simulation is widely used by the film and computer games industries. Researchers in the Trinity School of Physics use simulation techniques to study the electronic and magnetic behaviour of materials using principles of quantum mechanics.

They have access to a powerful parallel computer, listed in the Top 500 most powerful computers in the world. If you enjoy mathematics and computing and applying them to the world around you and you have successfully completed two years of physics study in the TR071 degree, you may opt to study the Physics and Computer Simulation course for the final two years of your degree. The specialist topics in the final two years include numerical methods such as numerical integration or applications of linear algebra, programming and high performance computing. The numerical and computational techniques that you will learn will open up a wide range of career opportunities for you.

Study abroad

Final year students carry out either physics or an astrophysics research project with the opportunity of working at an observatory in Ireland, UK, Canary Islands or Hawaii.

Career opportunities

Physics graduates are increasingly in demand in Ireland and elsewhere in modern high technology industries, as well as in teaching. You may also find a career in academic institutions, government and industrial research organisations and production facilities, or in the meteorological service. There are diverse opportunities in electronics, telecommunications, biophysics, hospital and health physics, automation and computing, as well...
as in a wide range of careers for which employers value the skills of problem-solving that come with the degree. It could also be a useful primary training for a legal, managerial or actuarial career for which a technical background is very attractive.

Did you know?
The IITAC cluster in the Trinity Centre for High Performance Computing consists of 712 processors and is capable of over 3 trillion floating point operations per second.

Further information
www.tcd.ie/Physics
Tel: + 353 1 896 1675

Physiology
Students who wish to study physiology apply to the science degree (TR071) and may select physiology as their specialist area for the 3rd and 4th years.
Senior Freshman (second year) prerequisites: Biology I, biology II
For details of the first two years of the science course, including entry requirements, see p. 123.

What is physiology?
Physiology is the study of how cells work, how they co-operate in organs like the heart or brain and how these organs function together in the body as a whole. Because knowing how the body works is essential for understanding how it goes wrong in sickness and disease, physiology is the scientific basis of human and animal medicine.

What will you study?
In the Physiology Department at Trinity, which is part of the School of Medicine, we focus on human physiology and how it is affected by disease, although a comprehensive understanding of physiology will also involve studying comparisons in mammalian species other than man. There is a particular emphasis on themes which reflect major research interests in our department, including brain function and responses to physical exercise. As a student of physiology you will be provided with a detailed understanding of a range of cell and organ systems, and will receive training in scientific methodology, experimental design, data analysis and research skills.

During the second half of the Senior Sophister (fourth) year you will undertake an individual research project. This project will be based in Trinity or in one of its associated hospital departments and will include a literature survey and production of a written dissertation. Some typical recent research projects have looked at the toxic effects of cannabis on brain cells, gastric motility in patients with pancreatitis, respiratory function in lung disease, the cellular mechanisms of memory formation, cardiovascular adaptations in athletes and muscle performance after different warm-up protocols.

Career opportunities
When you graduate you will be able to use your general scientific training and specialised knowledge of physiology to find employment in a wide variety of jobs. You may pursue further training in physiology and become a research scientist in a hospital, the pharmaceutical industry, a government agency or a university. Some graduates undertake further study in health-related fields such as medicine or physiotherapy.

Further information
www.tcd.ie/Physiology
Tel: + 353 1 896 1970
Students who wish to study zoology apply to the science degree (TR071) and may select zoology as their specialist area for the 3rd and 4th years.

Junior Freshman (first) year prerequisites: Biology
Senior Freshman (second year) prerequisites: Biology I, biology II

For details of the first two years of the science course, including entry requirements, see p. 123.

**What is zoology?**

Zoology is the scientific study of the animal kingdom, along with its evolution, diversity and environment. This involves building knowledge of both the structure of different kinds of animals and how they function, and the complex relationships that govern how animals relate to each other and their surroundings. Zoology provides fundamental information on three areas of our society: the environment, food production and human health.

**What will you study?**

The course highlights the major concerns of modern zoology in relation to environmental and medical biology, and introduces you to cell biological and other analytical techniques, fieldwork and computer-aided data handling procedures.

Work in the Junior Sophister (third) year provides a broad overview of zoology and includes core courses in:

- Ecology
- Physiology
- Animal behaviour

There are also additional options selected from the environmental or medical zoology programmes.

A lot of time in the Senior Sophister (fourth) year will be given over to a research project and tutorials in a specialist area selected from freshwater biology, marine biology, wildlife biology, evolution and behaviour, molecular biology, developmental biology and parasitology.

**Career opportunities**

Many graduates are pursuing academic and research careers, in Ireland and overseas. Others have entered the agricultural and fisheries sectors, the wildlife service, and aid agencies, as advisers and technical experts and as inspectors and managers.

Trinity zoology graduates have furthermore taken up publishing of wildlife magazines and educational literature, film making and careers in the media, fish farming, computer software development, second and third level teaching, museum work, tourism, environmental lobbying with organisations such as Greenpeace, environmental consultancy and wildlife conservation and management.

**Further information**

www.tcd.ie/Zoology
Tel: + 353 1 896 1366
What is theoretical physics?
Theoretical physics explores the natural world at its most fundamental level, using mathematical theories guided by experimental investigation. For some it is the foundation for an academic career in mathematics or physics. For others it provides the basis for many career options in industry, medicine, law, finance and computing. Trinity provides a course which ranges widely across physics and mathematics. Its graduates are in demand for their technical skills and versatility.

Is this the right course for you?
If you enjoy mathematics and seeing how physical theories can be developed to unlock the secrets of the universe on every scale from the quark to the Big Bang, you will be stimulated by this course. If you want to keep a wide range of options open for the future, you can do this in theoretical physics. It consistently attracts a spirited and talented class that makes the most of the Trinity experience.

Course overview
The course combines much of the mathematics and physics curricula, together with some special elements such as a project in computational physics.

In the Freshman (first and second) years the course is $\frac{2}{3}$ maths and $\frac{1}{3}$ physics

In the Sophister (third and fourth) years the course is 50% maths and 50% physics

There are approximately 24 hours of lectures, tutorials and laboratory classes per week.

Course content
Cosmology, astrophysics, chaos, relativity and quantum mechanics are some of the exciting topics that you will study. In the practical classes you will study the latest ideas in magnetism, superconductivity, laser technology and semiconductors.

### Junior & Senior Freshman

<table>
<thead>
<tr>
<th>Junior &amp; Senior Freshman (1st &amp; 2nd years)</th>
<th>Junior Sophister (3rd year)</th>
<th>Senior Sophister (4th year)</th>
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<tbody>
<tr>
<td>$\frac{2}{3}$ maths $\frac{1}{3}$ physics</td>
<td>50% maths 50% physics</td>
<td>50% maths 50% physics</td>
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<tr>
<td><strong>Maths</strong></td>
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<tr>
<td>Algebra</td>
<td>Electromagnetic theory</td>
<td>Courses cover statistical</td>
</tr>
<tr>
<td>Analysis</td>
<td>Quantum mechanics</td>
<td>physics, topics in theoretical physics, and two additional courses from a range of subjects in theoretical physics.</td>
</tr>
<tr>
<td>Mathematical methods</td>
<td>Numerical simulation of</td>
<td></td>
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<tr>
<td>Mechanics and computing</td>
<td>physical systems</td>
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<td>You will also take one</td>
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<td>additional course from a</td>
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<td>range of subjects in</td>
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<td></td>
<td>theoretical physics.</td>
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</table>

### Physics
The physics courses are divided into shorter modules, while the mathematics courses are typically longer.

<table>
<thead>
<tr>
<th>Origins of modern physics</th>
<th>Electromagnetic theory</th>
<th>Electromagnetic theory</th>
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<tbody>
<tr>
<td>The physics of sport</td>
<td>Quantum optics</td>
<td>Optical materials</td>
</tr>
<tr>
<td>Chaos and complexity</td>
<td>Statistical thermodynamics</td>
<td>Non-linear optics</td>
</tr>
<tr>
<td>Oscillations</td>
<td>Atomic and molecular physics</td>
<td>Magnetic resonance</td>
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<td>Optics</td>
<td>Nuclear physics</td>
<td>High energy physics</td>
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<td>Materials</td>
<td>Solid state physics</td>
<td>Metal physics and</td>
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<td>Nuclear physics</td>
<td>Astrophysics</td>
<td>superconductivity</td>
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<td>Electromagnetic interactions</td>
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<td>Condensed matter theory</td>
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<tr>
<td>Special relativity</td>
<td></td>
<td>Econophysics</td>
</tr>
<tr>
<td>Astrophysics</td>
<td></td>
<td>In addition you will either complete a computational project or further experimental work.</td>
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</tbody>
</table>
Assessment
Continuous assessment and end-of-year examinations make up the assessment process.

Career opportunities
Many of our graduates proceed to Ph.D. degrees in leading institutions throughout the world in mathematics and experimental physics as well as theoretical physics. Alternatively, an infinite world of possibilities beckons. You might not have thought that the technical manager in charge of the main European production line for M&M’s could be a graduate in theoretical physics from Trinity, for example. The broad scientific background and skills that the course develops are in great demand by employers in diverse areas including patent law, journalism, weather forecasting, telecommunications, medical physics, information technology and teaching.

Further information
www.maths.tcd.ie or www.tcd.ie/Physics
Tel: + 353 1 896 1949/2019

Information Systems
(evening attendance)
This programme comprises two distinct components:
- Diploma in Information Systems
- B.Sc. in Information Systems

Diploma in Information Systems
MINIMUM ENTRY REQUIREMENTS:
Six passes in the Leaving Certificate, or equivalent, with a minimum Grade C3 at ordinary level English and mathematics.
EU applicants who will be at least twenty-three years of age on 1st January of proposed year of admission may be admitted as mature students without having the minimum matriculation qualifications.
In addition, candidates must have at least two years relevant work experience.

APPLICATION PROCEDURE:
This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 30 June 2008 for entry to the academic year commencing in October 2008.
Application forms are available from the Admissions Office (www.tcd.ie/Admissions)
The Government’s Free Fees Initiative does NOT cover this course. All students registered for the Diploma in Information Systems are required to pay tuition fees.

This part-time course is intended for those who wish to engage in computer programming, software development, systems design, project management and technical support within business, industry and government IT functions. The Diploma runs over two years with lectures delivered on three evenings per week.
Each student is also required to carry out significant project work involving the development and implementation of an IT-based solution.
B.Sc. Degree in Information Systems

ENTRY REQUIREMENTS:
Students who successfully complete the Diploma in Information Systems may apply for entry to the final two years of the Programme leading to the award of Degree in Information Systems.

Holders of other qualifications at a sufficiently high level and deemed to be equivalent to the Diploma in Information Systems may also apply for direct entry to the Degree component of the programme.

APPLICATION PROCEDURE:
This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 30 June 2008 for entry to the academic year commencing in October 2008.

Application forms are available from the Admissions Office (www.tcd.ie/Admissions) or from the programme secretary.

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

This honors degree course is intended for those who wish to become senior professionals and managers in the IT sector. Graduates of the programme are equipped to manage within all sectors of the IT industry. The syllabus includes technologies, techniques and methods drawn from research and internationally accepted best practice. Lectures are delivered on three evenings a week.

Further details and application forms for the diploma and degree courses may be obtained from the Information Systems programme secretary at:

www.cs.tcd.ie/courses/bscis
Tel: + 353 1 896 1768
Email: computerscience.secretary@cs.tcd.ie
Health Sciences

Dental hygiene 146
Dental nursing 147
Dental science 149
Dental technology 151
Human nutrition and dietetics 152
Medicine 153
Midwifery 156
Nursing – children’s and general integrated 158
Nursing – general (Adelaide) 158
Nursing – general (Meath and St James’s) 158
Nursing – intellectual disability 158
Nursing – psychiatric 158
Occupational therapy 163
Pharmacy 164
Physiotherapy 166
Radiation therapy 168

Direct Entry (non-CAO) courses are available in:
Bachelor in midwifery studies (part-time) 169
Bachelor in nursing studies (part-time) 170
**Precautions against infectious diseases**

**Important: please read this section carefully.**

All offers of admission to Clinical speech and language studies, Dental science, Dental hygiene or Medicine are made subject to a negative HBsAg test result.

Students seeking entry to Clinical speech and language studies, Dental science, Dental hygiene, or Medicine must produce negative Hepatitis B s-antigen (HBsAg) and Anti HB Core Antigen (Anti-HBc) test results carried out not more than six months prior to entry before being permitted to register with the College. In the case of a positive result from the above, a Hepatitis B e-antigen (HBeAG) test with a negative result is required before registration. International applicants are advised to undergo the HBsAg test in their home country and to forward the result to the relevant office as soon as possible thereafter. The College reserves the right to retest prior to admission.

Students in Dental science, Dental hygiene and Medicine must produce a negative hepatitis C antibody test (and if positive a negative PCR test for hepatitis C RNA), carried out not more than six months prior to entry, before being permitted to register with the College.

If Irish law or regulatory practice changes between the date of publication of this document and the date of registration for new entrants to these courses, Trinity College reserves the right to require that the criteria adopted by law and/or regulation in relation to the ability to practice clinically in Ireland be satisfied before registration is permitted.

All students entering health sciences courses (except Pharmacy) are required to demonstrate evidence of immunity to tuberculosis within the first year of their course.

Students accepted on to pre-registration undergraduate nursing and midwifery programmes in the School of Nursing and Midwifery, prior to the first practice placement, must be immunised against hepatitis B, measles, rubella, tuberculosis and varicella unless immunity as a result of natural infection or previous vaccination has been documented. Screening (including medicals) and vaccination will be organised by the health service provider responsible for the practice area where the student is going on placement, after orientation. Some health service providers may require students to be screened for additional conditions, for example MRSA.

Details of vaccination requirements will be provided to all incoming students, and full details of all requirements regarding precautions against infectious diseases may be obtained on request from the following offices:

**Clinical speech and language studies:**
Department of Clinical Speech & Language Studies, Trinity College, Dublin 2.
Tel: 353 1 896 1588.

**Dental science:**
The Dental School Office, Lincoln Place, Trinity College, Dublin 2.
Tel: +353 1 896 1789/1690

**Medicine:**
School of Medicine, Chemistry Building, Trinity College, Dublin 2.
Tel +353 1 896 1075

**Nursing:**
The Allocations Office, The School of Nursing & Midwifery, 24 D’Olier Street, Dublin 2.
Tel: +353 1 896 2031

**Occupational therapy:**
Department of Occupational therapy, Trinity Centre for Health Sciences, St. James’s Hospital, James’s Street, Dublin 8.
Tel: +353 1 896 3210

**Physiotherapy:**
Department of Physiotherapy, Trinity Centre for Health Sciences, James’s Street, Dublin 8.
Tel: +353 1 896 2110

**Radiation therapy:**
Department of Radiation therapy, Trinity Centre for Health Sciences, James’s Street, Dublin 8.
Tel: +353 1 896 3234
Dental hygiene

COURSE CODE: TR802
PLACES 2007: 8
POINTS 2006: 415
AWARD: Diploma

This is a restricted entry course. Applications MUST be submitted by 1 February of the proposed year of entry.

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

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

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

See Precautions against infectious diseases p. 145

GARDA VETTING:
Students will be required to undergo Garda vetting.
See p. 11 for further details

What is a dental hygienist?
The role of the dental hygienist is to improve oral and dental health for individuals as well as for groups in collaboration with a registered dentist. The dental hygienist, as a clinician, focuses on the prevention and treatment related to the risk factors associated with gum diseases and dental decay. The dental hygienist is also an oral health promoter who plans, implements and evaluates oral health promotional activities for groups and individuals. The dental hygienist works within the dental team and with other groups of health care workers to provide a holistic approach to patient care.

Is this the right course for you?
If you have an interest in working in oral health, and particularly preventative oral health, then this course is right for you. You will need to be able to develop good patient care skills, so an empathic personality is crucial for high standard service to the people in your care. You need to be a good team player and show initiative to achieve the best for people in your care.

Course overview
This two-year course is based in the Dublin Dental School and Hospital which is located on Trinity’s campus. It qualifies you for entry to the Dental Council Register of Dental Hygienists. It has academic, project-based and clinical components, and is carried out in the Dublin Dental School and Hospital on Trinity campus and health board units in Dublin. Emphasis is on small group interactive learning, design and implementation of community and health promotion projects, evidence-based learning, and clinical practice. You will be integrated with undergraduate dental science students to a minor extent and dental nursing students for some elements of the course to ensure effective teamwork throughout the dental profession.

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

First year modules
- Introductory module
- Microbiology & Cross Infection Control
- Dental and Oral Pathology
- Computer Skills Course (incl. ECDL)
- Physiology and Medical emergencies
- Head & Neck Anatomy & Oral Physiology
- Oral Health and the Community
- Clinical dentistry I and II
- Applied Psychology & Social concepts of Patient Care
- Basic preventive and periodontal care
- Dental public health in the Community
- Psychology and social concepts in patient care
- Pharmacology and Local Anaesthesia
- Dental radiography
- Laboratory and clinical practice
- Smoking cessation counselling

Students who have achieved a Dental Nursing qualification in the last 3 years, which is recognised by the Irish Dental Council, may be exempt from certain first year modules. There are approximately 33.5 hours of classes in the first year.

Second year modules
- Human diseases and general pathology
- Prevention of diseases in the dental hard tissues in the child and adult
- Behavioural science
- Periodontology
- Research methods
- Clinical training and teamwork – Internal & External units
- Communication skills
- Presentation skills and oral health education
- Professional and practice management

After qualifying as a dental hygienist you will be able to:
- Describe the role of the dental hygienist in the promotion of oral health and the provision of primary health care
- Function within the dental team
- Plan, implement and evaluate oral health promotional and educational activities for groups and individuals
- Carry out procedures to measure and assess the levels of oral health and oral hygiene
- Debride and polish the teeth
- Place fissure sealants
- 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
As well as written examinations at the end of each module, a community-based health education project, competence tests in various clinical procedures, clinical credits, demonstration of a reasonable level of patient care and a final written and clinical examination contribute to assessment.

Your degree and professional practice
The Diploma in Dental Hygiene conferred by the University of Dublin entitles graduates to register immediately after graduation as a dental hygienist on the Register of the Dental Council of Ireland (RDH – Registered Dental Hygienist).

Career opportunities
As a dental hygienist, you have the option of being self employed, or employed. You will find employment in general or specialist dental practices, in health boards, hospitals, and in research or industry.

Further information
www.dentalhospital.ie from main menu select Education – Dental Hygiene
Email: karin.nylund@dental.tcd.ie, Tel:+ 353 1 612 7206

Dental nursing

| COURSE CODE: | TR801 |
| PLACES 2007: | 20 |
| POINTS 2006: | 310 |
| AWARD: | Diploma |

This is a restricted entry course. Applications MUST be submitted by 1 February of the proposed year of entry.

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

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

GARDA VETTING:
Students will be required to undergo Garda vetting.
See p. 11 for further details.

What is a dental nurse?
The dental nurse plays an important role in the organisation and management of the dental practice, assists the dentist in all aspects of patient treatment and plays a vital role in patient care.

The modern dental nurse trains in all aspects of clinical practice and dental health education. This course gives you the skills and practical competence needed to work in a dental surgery. You learn about the day-to-day running of a dental practice and acquire the qualifications for entry to the Dental Council voluntary Register of Dental Nurses.

Dental Nurses are a valuable member of the dental team. This is an auxiliary profession, supporting members of the dental team in the delivery of dental treatment.

Main duties include infection control, chair-side assistance, preparation and maintenance of the dental surgery, and patient care.

Skills required of students considering Dental Nursing should include the following: communication and organisation skills, the ability to use initiative, good manual dexterity, and be prepared to work closely providing support & assistance during the provision of dental treatment. The Dental Nurse may also be involved with the administration of the dental surgery.

Is this the right course for you?
Yes, if you have an interest in working as part of a dental team in the delivery of oral healthcare.

You will need to be able to develop good patient skills and be able to communicate effectively, while having a caring and understanding personality is an advantage.
Course overview

This two-year course is based in the Dublin Dental School and Hospital which is located on Trinity’s campus. It is divided into practical and academic (modular) components. Both the formal academic teaching and your practical clinical experience are gained at the Dublin Dental School and Hospital on Trinity’s campus.

In second year, you will spend time on external placements in the operating theatre of a general hospital and in a health service executive dental clinic. You will also spend time gaining experience in general dental practices throughout the Dublin area.

The programme consists of lectures, tutorials, demonstrations and practical experience. You will be assessed on a continuous basis regarding suitability and application of theory to practice. By the end of the course, you will have developed appropriate skills in patient and team management. You will be integrated with undergraduate dental science students for some elements of the course to ensure effective teamwork throughout the dental profession.

Course content

First year modules
- Introductory module
- Microbiology and Cross infection control
- Dental and Oral Pathology
- Physiology and Medical Emergencies
- Clinical Dentistry I
- Computer course (ECDL)
- Head & Neck Anatomy
- Oral Health and the Community
- Applied Psychology
- Social concepts in patient care
- Clinical Dentistry II

Second year modules
- Practice management
- Health Psychology
- Conscious sedation

Assessment

Year 1 is assessed by written examinations, practical examination continuous clinical assessment and written assignment.

Year 2 is assessed by written and clinical component – written examinations, written assignments and Research project, continuous clinical assessment, OSCE, clinical examination and viva.

Career opportunities

As a graduate of dental nursing, you will be able to find work in a variety of working environments including dental hospitals and health service executive dental clinics, as well as in general and specialist dental practices. Depending on the work setting, advancement in the field may include: senior dental nurse, clinic nurse manager, practice manager, marketing representatives for relevant companies, and oral health promotion.

Successful completion of this programme will permit entry onto the Dental Council Voluntary Register of Dental Nurses, Ireland.

Further information

www.dentalhospital.ie from main menu select: education – dental nursing - fulltime

Please contact the Dental Nurse Tutor Tel: + 353 1 612 7238
Email: dentalnursetutor@dental.tcd.ie
Dental science

COURSE CODE: TR052
PLACES 2007: 32
POINTS 2006: 560*
DEGREE AWARDED: B.Dent.Sc.

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate
HB3 + HC3
In two of physics, chemistry, biology, physics/chemistry or agricultural science
If you do not have a qualification in physics you must present mathematics at OC3/HD3 or better

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

All offers of admission to this course are made subject to a negative Hepatitis B antigen (HBsAg) test result.
See precautions against infectious diseases p. 145.

GARDA VETTING:
Students will be required to undergo Garda vetting.
See p. 11 for further details.

Course overview
This five-year programme is designed to ensure that graduates can safely and effectively deliver the full range of primary dental care, including prevention, diagnosis and treatment of oral and dental diseases. Treatment involves areas such as the restoration of damaged teeth, the correction of irregularities, the replacement of missing teeth and surgical procedures such as the removal of teeth.

Is this the right course for you?
Yes, if healthcare in general interests you and if you would like to specifically focus on oral healthcare and its impact on individuals. The nature of dentistry makes it essential that you also have an ability to build a caring and professional relationship with patients, co-workers and the wider community. You should also enjoy undertaking work that requires considerable attention to detail with small margins for error. Dental practice requires excellent vision and hearing. It is also physically demanding especially in areas such as manual dexterity and posture. The course is long (five years) and intense as the academic year is longer for students in other courses.

Why study at Trinity College?
This course is based in the Dublin Dental School and Hospital which is located on Trinity’s campus. The clinical facilities are of a very high standard with emphasis on the use of information technology. The curriculum is delivered in a problem-based learning (PBL) format, which aims to provide you with the skills to continuously evaluate and update your knowledge and clinical practice through your professional career. The class sizes are small ensuring that students receive considerable staff input into their progress throughout the programme.

Problem-based learning (PBL)
Problem-based learning (PBL) is designed to encourage students to learn subjects such as chemistry, biochemistry and physiology in an integrated manner and in a context that is relevant to the future clinical situations in which the knowledge will be applied. Structured problems are set to meet specified learning objectives and students organise themselves (under supervision) to undertake research to find out about how to achieve the learning objectives. Problem-based learning also encourages students to engage in self directed learning and aims to provide graduates with the skills necessary for life-long learning which is a requirement for all health care professionals.

Course content
The course is delivered mainly through small group tutorials (PBL) that consist of student-led discussions on topics and problems presented and facilitated by staff. These topics tie in with the development of the practical and clinical skills that you will develop in laboratories and clinics. Lectures, demonstrations, simulations, audiovisual and e-learning opportunities are also provided as appropriate.

You will provide patient care under the strict supervision of qualified dental staff from the second year onwards.

The first dental year
During the first dental year you will cover the following subject areas (approximately 30 hours per week):
- PBL tutorials (6 hours/week)
- Anatomy workshops and lectures
- Physics Project Based Learning
- Introduction to Dentistry
- Computer applications (ECDL)
- Behavioural science
- Ethics and law

The second dental year
The objectives of the second dental year are to ensure that you develop an understanding of:
- Normal function at cell and system levels and the integration of body systems
- Bacteria, viruses and their relationship to the human immune system
Clinical signs and symptoms of systemic and oral disease
Basic clinical skills necessary for the treatment of patients
The principles of experimental design, data collection and analysis
Relevant elements of the biological and medical sciences appropriate to the needs of a practising dentist
Health and safety

In addition you will develop communication skills with particular reference to patient care, learn how to interpret and explain the clinical signs and symptoms of systemic and oral disease with particular reference to dental practice and begin to practice the clinical skills necessary for the treatment of patients. Courses in the second year are complemented by knowledge of the relevant elements of the biological and medical sciences appropriate to the needs of a practising dentist.

Clinical training begins in the second year with students learning the vital basic skills of history taking, examination and diagnosis. Approximately half way through the year you will start providing very simple treatments for patients.

Years three, four and five

During the later years of the course you will be encouraged to take an approach to the management of oral health and disease which is based on the best available scientific evidence. In tandem with this, you will also need to be aware of related general healthcare issues for individuals and communities. In these three years you will provide more complex patient care.

Topics you will study in years three, four and five include:

- Human diseases, including both medical and surgical aspects
- Public dental health with an emphasis on disease prevention and epidemiology, as well as on the care of special needs patients
- Children's dental health which includes orthodontics (braces) and dental care specific to children
- Restorative dentistry which involves fillings and crowns, periodontology which includes treatment for gum disease
- Prosthodontics which involves the various type of artificial replacements for missing teeth
- Experimental design, data collection and analysis

Assessment

In keeping with the PBL style curriculum a wide variety of assessment methods are used in all years. There are end-of-term integrated written assessments, practical tests, skills tests of competence, clinical examinations, written reports and oral/verbal presentations. The written assessments include short essay, short answer and multiple choice type questions.

Study abroad

Students in the fourth year can participate in a SOCRATES exchange programme with dental schools in Norway, Sweden, Spain and the UK. Between the fourth and fifth dental years some students undertake voluntary placements in a wide variety of international locations such as developing countries.

Career opportunities

Career prospects for graduates of dentistry are excellent. While most graduates enter general practice, many also enter the health board dental service, which provides care for special needs patients and children in health clinics operated by the regional health boards. A smaller number of openings exist in dental schools and hospitals for house officers or registrars. These positions can lead on to training in specialist areas. Other possibilities include postgraduate research or a university teaching career.

Your degree and professional practice (B.A., B.Dent.Sc)

The degree Bachelor of Dental Science (B.Dent.Sc) conferred by the University of Dublin entitles graduates to register immediately after graduation as a dentist on the Register of the Dental Council of Ireland as well the regulatory bodies of other countries in the European Union (such as the UK, France, Germany, etc.).

Graduates who wish to practice in countries outside the EU such as the USA or Canada will be required to undergo additional training and pass specified examinations.

Further information

www.dentalhospital.ie from main menu select Education – Dental Science Undergraduate
Tel: + 353 1 896 1789/1690
Email: info@dental.tcd.ie
Dental technology (ordinary degree)

COURSE CODE: TR803
PLACES 2007: 6
POINTS 2006: 355
DEGREE AWARDED: B.Dent.Tech

This is a restricted entry course. Applications MUST be submitted by 1 February of the proposed year of entry.

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

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

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

Course overview
This three-year course is designed to give you a high level of understanding and technical skills in all the basic disciplines of dental technology. You will get a good background in the relevant material science and learn how to accurately cast dental alloys, make porcelain restorations and create high quality dental appliances. You will be integrated with undergraduate dental science students for some elements of the course to ensure effective teamwork throughout the dental profession.

Is this the right course for you?
As a dental technologist, you will be working as part of the dental team fabricating prosthetic dental devices. Therefore, if you have an interest in oral health and are simultaneously creatively minded you will be suited to this course.

Course content
Based in the Dublin Dental School and Hospital on Trinity’s campus, this course includes lectures and practicals in the basic sciences, and in all aspects of laboratory techniques and technology. In the third year, you will be based in a dental laboratory, both to learn laboratory management and to develop your technical skills.

First year
- Oral masticatory system
- Physics
- Chemistry
- Computer studies
- Dental technology theory and practice

There are approximately 30 hours of classes per week in the first year.

Years two and three
- Business studies
- Material science
- Dental technology theory and practice
- Laboratory production
- Completion of a technical project

Assessment
Continuous assessment in the practical aspects of your work are combined with end-of-year written examinations in years one and two.

In third year you will undertake a scientific study which will include an experiment, and present a thesis which will be examined by external and internal examiners. You will also undertake production work throughout the year.

Career opportunities
This course qualifies you to pursue a career as a dental technologist working in a dental laboratory – perhaps becoming a dental laboratory owner; to teach dental technology; to partake in further studies – dental materials science or research. It would also assist you in becoming a representative for a dental materials/equipment company or to move into forensic work.

Further information
www.dentalhospital.ie from main menu select Education – Dental Technology
Email: declan.byrne@dental.tcd.ie, Tel: + 353 1 612 7234
Human nutrition and dietetics

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<td>POINTS 2006:</td>
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<td>DEGREE AWARDED:</td>
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SPECIAL ENTRY REQUIREMENTS:
This is a conjoint course between DIT and TCD. For full details of admission requirements contact the Dublin Institute of Technology.

APPLICATION PROCEDURE:
Admissions to this course are processed by the DIT (course code DT223). In addition to standard CAO applications, advanced entry and mature entry applications are considered. Further details are available from:
The Admissions Office, Dublin Institute of Technology 143-149 Rathmines Road Dublin 6 Tel: +353 1 402 3445 Fax: +353 1 402 3399 Email: admissions@dit.ie Web: romulus.dit.ie/DIT/admissions/index_prn.html

Course overview
This course qualifies you to practice professionally as a nutritionist or dietitian.

Is this the right course for you?
Dietitians prevent disease by promoting healthy eating habits and by helping individuals to change their diets and eating habits to improve health and alleviate disease. You will obviously need a strong interest in science subjects but, more importantly, will need to be interested in the relationship between food and health.

If you like the idea of combining science subjects and working with people on a one-to-one basis in health care, then this course is right for you.

Course content
This degree course is the only one leading to a professional qualification in dietetics in the Republic of Ireland. It is conducted jointly between the Dublin Institute of Technology (DIT) and the University of Dublin. Although the course duration is four and a half years at present, a course review is under way and this will be amended to 4 years.

When you graduate you will receive a Graduate Diploma in Human Nutrition & Dietetics from the DIT, in addition to the B.Sc. in Human Nutrition & Dietetics from the University of Dublin. The degree is recognised by the Irish Nutrition & Dietetic Institute (INDI), the British Dietetic Association (BDA), the American Dietetic Association (ADA), and the Nutrition Society.

The Sophister years
In the Junior and Senior Sophister (third and fourth) years, foundation subjects are strengthened (biostatistics, behavioural science, communications, food science), specialist subjects are introduced (management, medicine, medical sciences) and the degree subjects studied to an advanced level (nutrition, dietetics). Clinical classes are introduced in third year, in the areas of medicine and clinical 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
You will undertake a total of six months’ professional placements during the course. Practical placements are arranged in a variety of hospital and community settings. At present, there is a long placement programme during the Sophister years, but the schedule is likely to change following course review to include placement periods during the Freshman years as well as the Sophister years.

Assessment
End-of-year written examinations, together with continuous assessment of course work, practical work and assignments make up the assessment process. Oral examinations are conducted in some subjects.

Continuous assessments are also carried out during your practical placements and a formal clinical examination takes place at the end of the course. You will also be expected to write a thesis to report the results of your final year research project, and to present and defend it orally.

An objective of the course review is to modularise the course content. This will entail a fundamental change in assessment structure.

Career opportunities
When you graduate, you will be well placed to find work as a dietitian or clinical nutritionist in a hospital or in the community. You will also be qualified to work in, for example, a food company or in clinical nutrition product sales and marketing. Some of our graduates have also chosen academic careers in research or education.

Further information
www.tcd.ie/Nutrition_and_Dietetics

Additional information can also be obtained from:
- The Irish Nutrition & Dietetic Institute (www.indi.ie)
- The Nutrition Society (www.nutritionsociety.org)
Medicine

COURSE CODE: TR051
PLACES 2007: 74
POINTS 2006: 580*
DEGREES AWARDED: M.B. (Bachelor in Medicine), B.Ch. (Bachelor in Surgery) and B.A.O. (Bachelor in Obstetrics).

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 p. 145 for vaccination requirements with regard to Hepatitis B, Hepatitis C and Tuberculosis.

GARDA VETTING:
Students will be required to undergo Garda vetting. See p. 11 for further details.

Why study medicine at Trinity?
The medical school at Trinity was founded in 1711 and has played a central role in the golden age of Irish medicine. Today it is an international leader in biomedical research and education.

Students of medicine at Trinity will follow a five-year programme leading to the degrees of Bachelor in Medicine, Bachelor in Surgery and Bachelor in Obstetrics. Following graduation you are required to spend one year service as resident house officers (interns) in an approved hospital(s) before becoming a fully registered medical practitioner.

The major characteristics of medicine at Trinity are:
- Promotion of multiple assessment formats including continuous assessment and a reduction of reliance on annual high stakes assessments
- Recognition of the patient as an active partner
- Prioritisation of personal and professional development

Teaching hospitals
Trinity’s two main general teaching hospitals, St James’s Hospital and the Adelaide and Meath Hospital incorporating the National Children’s Hospital, are up to date tertiary level hospitals. They have several specialist units. Specialist affiliated hospitals include:
- Coombe Women’s Hospital
- The Central Mental Hospital (Dundrum)
- Children’s Hospital (Temple Street)
- Naas General Hospital
- National Maternity Hospital (Holles Street)
- Our Lady’s Hospital for Sick Children (Crumlin)
- The Rotunda Hospital
- The Royal Victoria Eye and Ear Hospital
- St Patrick’s Hospital.

Is this the right course for you?
The medical programme at Trinity is a challenging but highly rewarding experience. The academic requirements are high and there will be considerable demands on your time. As medicine is ultimately about the care of people, you will also need to feel comfortable in a people-oriented environment where teamwork will be equally as valuable as your individual contribution.

Course content
The first medical year
The course is delivered as a set of three modules.

Module 1: Human development and behavioural science

Aims:
- To give students an understanding of concepts of normality in physical and psychological human development
- To enable students to understand the evolution of man and the functioning and relationships of individuals in relation to society and environment
- To equip students with a thorough and integrated knowledge of normal human function and behaviour
- To provide students with their first professional experience of health care through the family case study

Teaching Methods:
- Family case study where students, guided by a family physician, make a number of visits to a family with a young baby and observe the physical and mental development of the baby and its assimilation into its family
- Lectures deal with the physical and psychological aspects of general human development
- Small group psychology tutorials using clinical scenarios to facilitate learning
- Ethical issues that may arise in the safe delivery of health care
The skills that contribute to active learning and develop skills of information handling and critical thinking

Aspects of teamwork and also the ability to give and receive constructive criticism and to self assess realistically

**Module 2: Evolution and Life**

*Aims are to assist students to explore:*

- The areas of basic science that impact on man and his survival in the environment
- The principles of biochemistry, genetics, immunology and microbiology at a basic level.

**Teaching Methods**

- Small group learning tutorials with related lectures as appropriate. All topics will be multidisciplinary and scenarios will be set in a human context. Disciplines contributing to this integrated module include physics, chemistry, biology, anatomy, physiology, biochemistry and immunology.

**Module 3: Human Form and Function**

*Aims:*

- To enable students to build up a three-dimensional mental model of the normal macroscopic structure of the human body, commencing with a general overview of the bones, joints and muscles
- Human physical development and function at cell, organ, systems and whole body levels
- To develop an understanding of how structure relates to function with particular emphasis on the biomechanical and surgical implications
- To introduce students to current diagnostic imaging techniques and their use in the diagnosis of disease

**Teaching Methods**

- Most learning occurs in practical workshops using protected specimens, but there are also lectures
- Small group learning tutorials with related lectures as appropriate. All topics will be multidisciplinary and scenarios will be set in a human context. Disciplines contributing to this integrated module include physics, chemistry, biology, anatomy, physiology, biochemistry and immunology.

The second medical year

In this year there are four modules.

**Module 1: Molecular Medicine**

*Aims:*

- To develop a knowledge and understanding of the pharmacological basis of therapeutics
- To build on the understanding of basic biochemistry acquired in the first year of the course and to consider how that knowledge may be used for diagnosis of disease states
- To provide an insight into the mechanisms of the development of pathological processes at molecular level

This module is largely lecture based and also uses computer based practical programmes.

**Module 2: Neuroscience**

The disciplines of anatomy, biochemistry, pharmacology and therapeutics, physiology and psychiatry all participate in this module.

*Aims:*

- To consider all aspects of the nervous system, from biophysics to behaviour, in health and disease
- The anatomy of the head and neck is included in this module and is delivered by lecture and workshop

This module consists of lectures, practicals and interactive workshops.

**Module 3: Aetiology, mechanisms and treatment of disease**

*Aims:*

- To revise and develop further an understanding of the nature and significance of microbes in the 21st century
- To explore aspects of prevention and control of infection and the challenges which are presented as a result of globalisation
- To consider human host responses to pathogens
- To consider the range of drugs and treatment strategies available for disease prevention and control
- All disciplines use lectures, laboratory practicals and small group tutorials

**Module 4: Clinical skills**

*Aims:*

- To develop, at first in a laboratory setting, the technical skills essential for the delivery of a safe effective service to patients. Students learn a range practical skills including taking a clinical history, performing an examination and interpreting simple investigations.
- To focus directly on the range of skills necessary to ensure that students have rational and empathetic interactions with patients, in particular excellent listening and communication skills.
- To assist the development of the student as a member of a multidisciplinary health care team.

Modes of delivery include communication workshops with role play and video recording, skills laboratory, and workshops on suturing, catheterisation, phlebotomy, etc. Attendance at gerontology day care centres, diagnostic imaging and cardiology departments, and pulmonary function laboratories is organised.

The third medical year

There are 4 modules.

**Module 1: Aetiology, mechanisms and management of disease (2)**

*Aims:*

- To expand and deepen the understanding of the role of microbes in the causation of human health and disease
- To consider in detail how disease processes affect the cell and consequently disrupt function at organ, system and organism levels
Lectures, practicals and tutorials are divided more or less evenly between the disciplines of microbiology and pathology. Multidisciplinary structured cases will constitute an important integrating influence.

### Module 2: Pharmacology and therapeutics

**Aims:**
- To ensure that students have a broad knowledge of the treatment of a wide range of common diseases
- To ensure that students can prescribe safely and effectively in hospital and for the wider community
- To develop an appreciation of how to critically appraise information in relation to drug therapy and assess the evidence base contained in peer-reviewed journals

This module is delivered by lectures and includes approximately eight bedside clinical tutorials.

### Module 3: Evidence-based medicine

**Aims:**
- To ensure that students gain experience in searching the scientific literature and obtaining appropriate material
- To develop a critical approach to published material
- To learn to prioritise aspects of their findings
- To learn to collate information and to deliver a succinct and factual report of their findings
- To learn to verbally present their material to their peers in a structured and meaningful way
- To have an opportunity, to explore at some depth and with guidance, a topic that impacts scientifically or clinically on the current practice of medicine.
- To understand the importance of teamwork and the problems that arise during group collaboration and the ways in which they may be managed

In these group projects students are offered a choice of project titles by the various departments in the medical school. Students select the project of their choice and, following a meeting with the staff project leader, they work in groups of 10 to review the literature and draw up a written report. They also make a verbal presentation to the class.

### Module 4: Clinical medicine and clinical surgery

**Aims:**
- To provide a safe structured clinical environment in which to apply skills, knowledge and attitudes developed in the earlier years
- To facilitate the practice of effective, patient centred, evidence-based medicine
- To provide the student with experience of practice in primary and secondary care areas
- To develop the student’s capacity to reflect and self assess accurately and to appreciate the need to do clinical audit
- To encourage and provide opportunities for multi-professional teamwork

Clinical team attachments begin with a general introduction on the first week in September. Students are team attached in groups of two. Students are also advised to do at least one elective in either July or August which may be spent in any discipline or area of their choice in any location worldwide.

This module marks the beginning of the hospital clinical rotation programme.

**Medical moderatorship**

After completing year three successfully, you may be permitted to take a year out from the medical course to undertake a moderatorship in science in an approved subject. This is subject to the availability of places and the agreement of the head of department concerned, but is a good way to gain experience in scientific research if you are interested in the possibility of a career in academic medicine.

**The fourth and fifth medical years**

During these two years the emphasis is on continuous enhancement of the skills and attitudes acquired in the first three years of the course. There is, of course, some acquisition of important new knowledge and most of this is achieved through interaction with a wide range of consultants and mentors both on the wards and at various hospital conferences. The undergraduate student becomes an integrated member of each team to which s/he is attached and is expected to participate fully in all aspects of that team’s activities. This expectation will inevitably involve some early morning and late evening work. The duration of team attachments vary from two weeks to two months so that each student is exposed to a wide range of general and specialist areas. There are excellent library facilities available on both of the major teaching hospital sites. There are a range of special structured tutorials included in the final year to ensure comprehensive cover of important areas for all students.

The majority of hospital attachments take place in St James’s Hospital in Dublin and the Adelaide and Meath Hospital incorporating the National Children’s Hospital in Tallaght, however some training also takes place in regional hospitals around Ireland and in hospitals dedicated to particular areas of medicine.
Study abroad
From the beginning of third medical year students must attend hospital continuously and credit for clinical exposure may be obtained in a number of units including a general hospital abroad and an overseas medical centre. Students may also avail of the opportunity to undertake the SOCRATES Programme. The Medical School currently has a one-year exchange programme for students with Tours University in France.

Assessment
The assessment structure is wide and varied and includes in-course evaluation of practical and clinical skills, as well as case studies, research projects, formal written and oral examinations and Objective Structured Clinical Examinations.

Intern year
On completion of the medical course a doctor must spend one year as a resident medical officer/intern at a hospital or hospitals recognised for the purpose before being eligible for full registration with the Irish Medical Council. The University does not assume responsibility for these appointments. To practise in Great Britain and Northern Ireland, registration with the General Medical Council in the UK is necessary.

Career opportunities
As a doctor, you will have plenty of options to choose from when it comes to making a decision about your career. Most people wait until their year as an intern is complete before committing to one area over another. Some then enter general practice, while many more continue their training as a general physician or surgeon, or in a related specialist field. Alternatively, you might, as others have done, prefer to work in an area such as hospital management, or make research your priority by opting for a career in academic medicine.

Further information
Medical School Office
Trinity College Dublin
Tel + 353 1 896 1075
Email: MedAdmin@tcd.ie
www.medicine.tcd.ie

Midwifery
COURSE CODES: TR913 TR914 (Mature)
PLACES 2007: 20 20
POINTS 2006: 390 163*
SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate
- O/HD3 Mathematics
- O/HD3 In one of biology, physics, chemistry, physics/chemistry or agricultural science
GCSE
- Grade C Mathematics
- Grade C In one of biology, physics or chemistry

Note for mature applicants:
Applications must be received by the CAO by 1 February of the proposed year of entry. You are not required to submit a Mature Student Supplementary Application form to Trinity College. However, you will be invited to attend a written assessment by the Nursing Careers Centre and may, thereafter, be called to interview.

Screening (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 p. 145 for vaccination requirements with regard to Hepatitis B, Hepatitis C and Tuberculosis.

GARDA VETTING:
Students will be required to undergo Garda vetting. See p. 11 for further details

What is a Midwife and Midwifery?
The term ‘midwife’ means ‘with woman’. The concept of partnership between the woman and the midwife is fundamental to midwifery practice and is based on mutual trust, support and collaboration. The midwife uses midwifery skills to provide care that is individual to each woman and recognises the woman’s ownership of her birth experience. Care for women experiencing a physiological pregnancy and birth is the core of practice of the midwife. The midwife is the key professional providing continuity of care and promoting choice and control to women in pregnancy and birth, and to women and their babies following birth.

Course content
This four year programme will be offered in partnership with two linked maternity care providers: Coombe Women’s Hospital and The Rotunda Hospital. The first three years combine learning in both university and midwifery practice in the maternity hospitals and will take place during the academic year with usual academic holidays. The final year will include a 36 week period of internship in midwifery practice for which the students will be salaried.

This programme will provide you with the knowledge and skills to meet the needs of women and their families in an individualised, culturally sensitive manner. There are two components to the
midwifery degree programme – a theoretical component and a midwifery practice component.

Like all professional courses in health sciences, midwifery places extra demands on students’ time. It can be demanding, both physically and emotionally and so you should ensure that you are in a position to fully engage with the course during your time in College.

Theoretical component:
The theoretical component of the course will be taught in the Trinity School of Nursing & Midwifery, D’Olier Street, and in the Trinity Centre for Health Sciences in St James’s Hospital. Teaching methods include lectures, small group teaching, tutorials and practice classes. In first year you will typically spend 3-4 days in theory classes and one day in practice during theory blocks. Each day in theory will consist of approximately 6 hours per day in lectures, tutorials and laboratory practicals.

The programme content will cover such areas as:
- Midwifery practice – knowledge and skills
- Communication and interpersonal skills
- Professional, personal, ethical and legal issues
- Knowledge base for midwifery practice to include: biological sciences, psychology, pharmacology, non-pharmaceutical approaches
- Social theory for midwifery practice
- Research
- Health promotion
- Maternal and social care services in Ireland

Midwifery practice component:
For the practice component you will be based in one of the maternity care providers: Coombe Women’s Hospital or the Rotunda Hospital. Midwifery students will also undertake other practice placements, for example, mental health, medical and surgical. In first year students will be required to complete three, four-week practice placements, which will consist of 30 hours supernumerary (unpaid) practice per week in a practice setting. The final year will include a 36 week period of internship in midwifery practice for which the students will be salaried.

Midwifery practice placements take place throughout the four years of the programme. You will begin your first midwifery practice placement after Christmas of the first year of the programme. Before this placement you will have spent approximately one day per week with lecturers and midwives in the maternity hospitals.

Which maternity care provider will you train with?
After you accept an offer to this programme, you will receive a welcome pack from Trinity. This pack contains a form asking you to indicate which maternity care provider you would prefer to be linked with. Requests are dealt with on a first come, first served basis. Where possible you will be assigned your first choice, however, if the number of applicants exceeds the number of places available you will be assigned your second choice. A reserve list is held and if a vacancy arises it may be possible to transfer to your first choice.

Assessment
Assessment of learning in midwifery practice is an important component of the programme and will take place throughout the programme. Other forms of assessment include written examinations and assignments, presentations, debates, teaching sessions etc.

Career opportunities
As a graduate you will be eligible to apply to have your name entered in the midwives division of the Register of Nurses maintained by An Bord Altranais and begin your career as a midwife. Midwives may choose to work in a variety of health care settings. The majority of midwives practise within the Health Service, in maternity hospitals, maternity units of large and small general hospitals, in private maternity hospitals etc. Midwives can also practice independently and there is a small group of midwives who do so. There are also a number of midwife-led initiatives being developed.

Midwives have an option to develop their career in many different ways, progress is along three broad pathways: practice, management, education and research. The opportunities are endless. Midwives educated in the Republic of Ireland may move freely within the European Union and in most countries worldwide.

Further information
www.tcd.ie/Nursing_Midwifery
Email: nursing,midwifery@tcd.ie
Tel: +353 1 896 2692
Nursing: general nursing, psychiatric nursing, intellectual disability nursing, children’s & general integrated nursing

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DEGREE AWARDED: B.Sc. (Cur.)

SPECIAL ENTRY REQUIREMENTS:

Leaving Certificate
- O/HD3 Mathematics
- O/HD3 In one of biology, physics, chemistry, physics/chemistry or agricultural science

GCSE
- Grade C Mathematics
- Grade C In one of biology, physics or chemistry

Note for mature applicants:
Applications must be received by the CAO by 1 February of the proposed year of entry. You are not required to submit a Mature Student Supplementary Application form to Trinity College. However, you will be invited to attend a written assessment by the Nursing Careers Centre and may, thereafter, be called to interview.

Screening (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 p. 145.

GARDA VETTING:
Students will be required to undergo Garda vetting. See p. 11 for further details.

Course overview

With over one thousand undergraduate nursing students in Trinity College, you will become part of a vibrant student community. You will meet students from all disciplines as you study core modules, and form cohesive classes within your own discipline as you specialise within your chosen area. Nursing students are taught predominantly in the Nursing School building on D’Olier Street, offering students an opportunity to meet and interact with their classmates. With its proximity to Trinity’s main campus, Nursing students are never far from the centre of student life.

This four-year nursing programme (Children’s & General is 4.5 years) is offered in partnership with six health service providers. Students remain with the same health service provider for the duration of their programme and become an integral part of the hospital. Trinity’s six linked health service providers are:

- General nursing
  - The Adelaide and Meath Hospitals, incorporating the National Children’s Hospital (AMNCH) at Tallaght
  - St. James’s Hospital
- Psychiatric nursing
  - Health Service Executive Dublin Mid Leinster
  - St. Patrick’s Hospital
- Intellectual Disability nursing
  - Stewart’s Hospital Services Ltd, Palmerstown
  - St. Anne’s Sisters of Charity of Jesus and Mary, Moore Abbey
- Children’s & General integrated nursing
  - The Adelaide and Meath Hospitals, incorporating the National Children’s Hospital (AMNCH) at Tallaght

Is this the right course for you?

You will need to have a keen interest in healthcare, be capable of working as part of a team, and have a caring and understanding personality and outlook to enjoy working as a nurse.

Like all professional courses in health sciences, nursing places extra demands on students’ time. It can be demanding, both physically and emotionally and so you should ensure that you are in a position to fully engage with the course during your time in college.

Course content

This course will give you the knowledge, skills, attitude and professional values necessary to provide high quality, competent and caring nursing practice in the discipline of nursing you choose to follow. There are two components to the nursing degree course – a theoretical component and a clinical component.

Theoretical component

The majority of the theoretical component of the course will be taught in the Trinity School of Nursing & Midwifery building, which is located on D’Olier Street, minutes from the main campus. Classes are also held on the main Trinity campus and in the Trinity Centre for Health Sciences in St James’s Hospital and the Adelaide & Meath Hospitals incorporating the National Children’s Hospital (AMNCH), Tallaght. Teaching methods include lectures, tutorials, practical classes, clinical skills laboratories, group teaching, and reflective workshops.
Health Sciences

For the theoretical component, students will undertake modules of study that are shared with all nursing disciplines and modules that are discipline-specific. The subjects of study are Nursing, Biological Sciences, Psychology and Sociology, with the emphasis being on Nursing. (See table below for module titles). In years one and two students will concentrate on nursing, biological, behavioural and social sciences. In years three, four and five (where applicable), students will develop and enhance their knowledge, skills and attitudes for professional nursing practice.

Clinical component

For the clinical component you will be based in one of the health service providers for the duration of the course. Part of your course work will be unpaid practice placements in a variety of clinical settings. For General, Psychiatric & Intellectual Disability disciplines, this will consist of 45 weeks taking place in four to six-week blocks in each year of the programme. During the fourth year of the programme you will undertake a 36-week roster of continuous placement and you will be a paid health service employee. The Children’s & General integrated course will consist of 58 weeks of unpaid practice placements along with a 36-week roster of continuous placement where you will be a paid health service employee. The rostered placement spans the fourth and fifth years of the course.

As the course progresses you will be prepared to undertake a number of different clinical placements in your chosen discipline. These include:

General nursing
- Medical nursing – general/specialist (including day care, outpatients, coronary care, high dependency units)
- Surgical nursing – general/specialist (including day care, outpatients, coronary care, high dependency units)
- Accident & Emergency and outpatients
- Child care and paediatrics
- Mental health and psychiatric nursing
- Care of the older person
- Home nursing/community (including primary health care, voluntary & statutory agencies, intellectual disability)
- Operating theatre
- Maternity care
- Psychiatric nursing
- Psychiatric nursing (acute and long term care in mental health)
- Community-based care and rehabilitation
- Specialist areas (e.g. addiction studies, child and adolescent psychiatry, special care units, behaviour therapy and forensic psychiatry)
- Care of the older person
- Adult general nursing
- Management

Intellectual disability nursing
- Education and development of the child – including a balance of caring and developmental experiences across a variety of generic and specialist settings
- Education and development of the adult – e.g. training, work, activation and living areas
- Disorders of human behaviour – specialising in the care of persons with disorders of human behaviour, including those with intellectual disability
Acute nursing – specialising in the care of persons with acute nursing needs, including those with intellectual disability who have physical disability/illness

Specialist areas – e.g. physiotherapy, communication, speech and language, and physical education

Management

Children’s & general nursing
The Children’s and General nursing programme combines the General programme as mentioned above and integrates a children’s programme which results in a programme which spans the seven ages of man and allows for registration as both a Children’s and a General nurse with An Bord Altranais.

Medical nursing of infants, children and adolescents within a family centred framework (General and specialist placements)

Surgical nursing of infants, children and adolescents within a family centred framework (General and specialist placements)

Accident and Emergency nursing of infants 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?
After you accept an offer to one of the nursing disciplines you will receive a welcome pack from Trinity. This pack contains a form asking you to indicate which health service provider you would prefer to be linked with. Requests are dealt with on a first come, first served basis. Where possible you will be assigned your first choice, however, if the number of applicants exceeds the number of places available you will be assigned your second choice. A reserve list is held and if a vacancy arises it may be possible to transfer to your first choice. Most students are allocated their first choice of health service provider.

Assessment
A combination of examinations, essays, clinical projects, clinical skills, laboratory techniques, literature reviews (review of past and current literature relating to the subject matter), reflective practice (thinking about an experience and reflecting on its meaning) and clinical assessments is used.

Career opportunities
As a graduate you will be eligible to apply to have your name entered in the relevant division(s) of the Register of Nurses maintained by An Bord Altranais and work as a nursing professional in your chosen discipline. You should have no problem getting employment as nursing staff are in short supply worldwide.

You will also be qualified to continue your education and to further specialise should you wish to do so. The Trinity School of Nursing offers a wide range of postgraduate courses for furthering your studies. Nurses also take up careers in industry, particularly in the marketing of healthcare products.
### Modules of Study

#### The Freshman (first and second) years

<table>
<thead>
<tr>
<th>Shared Learning Modules (All disciplines)</th>
<th>Discipline-specific Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wellness &amp; Health Promotion (yr 1)</td>
<td><strong>General Nursing:</strong></td>
</tr>
<tr>
<td>Nurse as Educator Communicator (yrs 1 &amp; 2)</td>
<td>Introduction to General Nursing (yr 1)</td>
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<tr>
<td>Research for Nursing Practice (yrs 1 &amp; 2)</td>
<td>Specialist Approaches to Nursing Practice (yrs 1 &amp; 2)</td>
</tr>
<tr>
<td>Professional Issues for Nursing (yrs 1 &amp; 2)</td>
<td>The Principles and Practice of General Nursing (yr 2)</td>
</tr>
<tr>
<td>Clinical skills (yr 1)</td>
<td>Applied Biology: Pathophysiology &amp; Pharmacology (yr 2)</td>
</tr>
<tr>
<td>Personal &amp; Professional Development (yrs 1 &amp; 2)</td>
<td><strong>Psychiatric Nursing:</strong></td>
</tr>
<tr>
<td>Biology: The Scientific Basis for Nursing (yr 1)</td>
<td>Concepts for Psychiatric Nursing (yr 1)</td>
</tr>
<tr>
<td>Biology: Introduction to the Main Systems of the Body (yr 1)</td>
<td>Introduction to Psychiatric/Mental Health Nursing (yr 1)</td>
</tr>
<tr>
<td>Sociology of Health and Illness (yrs 1 &amp; 2)</td>
<td>Mental Health Nursing and Acute Care (yr 1)</td>
</tr>
<tr>
<td>Introduction to Psychology &amp; Health Psychology for Nurses (yr 1)</td>
<td>Mental health Nursing: Acute &amp; Continuing Care (yr 2)</td>
</tr>
<tr>
<td>Psychology - The Lifespan Approach to Health &amp; Illness (yr 2)</td>
<td>Psychotherapeutic skills and Mental Health Nursing (yr 1)</td>
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<tr>
<td><strong>General Nursing:</strong></td>
<td>Psychotherapeutic approaches and Mental Health Nursing (yr 2)</td>
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<tr>
<td><strong>Psychiatric Nursing:</strong></td>
<td>Specialist Module: Child and Adolescent Mental Health &amp; Forensic Mental Health (yr 2)</td>
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<tr>
<td><strong>Intellectual Disability Nursing:</strong></td>
<td>Specialist Module - Addiction/Maternal Mental Health/ID/General (yr 2)</td>
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<tr>
<td>The Lifespan of the Person with Intellectual Disability (yrs 1 &amp; 2)</td>
<td>Applied Biology: Pathophysiology &amp; Pharmacology (yr 2)</td>
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<tr>
<td>Concepts of Intellectual Disability (yrs 1 &amp; 2)</td>
<td><strong>Children’s &amp; General Nursing</strong></td>
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<td>Holistic Understandings of Care (yr 1)</td>
<td>All modules as per General Nursing, plus:</td>
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<tr>
<td>Approaches to Nursing Practice (yrs 1 &amp; 2)</td>
<td>The Art and Science of Children’s Nursing (yr 1)</td>
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<tr>
<td>Therapeutic Interventions for Care (yr 2)</td>
<td>The Principles of Children’s Nursing for Practice Placement (yr 1)</td>
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<tr>
<td>Frameworks for Intellectual Disability Practice (yr 2)</td>
<td>The Individual Child and Family in Health and Illness: The Sick Infant Child (yr 2)</td>
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<tr>
<td>Applied Biology: Pathophysiology &amp; Pharmacology (yr 2)</td>
<td><strong>Intensive Care Nursing:</strong></td>
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<tr>
<td><strong>Intensive Care Nursing:</strong></td>
<td>Therapeutic Interventions for Care (yr 2)</td>
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<td><strong>Intensive Care Nursing:</strong></td>
<td>Frameworks for Intensive Care (yr 2)</td>
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<td><strong>Intensive Care Nursing:</strong></td>
<td>Applied Biology: Pathophysiology &amp; Pharmacology (yr 2)</td>
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<td><strong>Intensive Care Nursing:</strong></td>
<td><strong>Adult Critical Care Nursing:</strong></td>
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<td><strong>Intensive Care Nursing:</strong></td>
<td>Therapeutic Interventions for Care (yr 2)</td>
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<td><strong>Intensive Care Nursing:</strong></td>
<td>Frameworks for Adult Critical Care (yr 2)</td>
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<td><strong>Intensive Care Nursing:</strong></td>
<td>Applied Biology: Pathophysiology &amp; Pharmacology (yr 2)</td>
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<td><strong>Intensive Care Nursing:</strong></td>
<td><strong>Medical-Surgical Nursing:</strong></td>
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<td><strong>Intensive Care Nursing:</strong></td>
<td>Therapeutic Interventions for Care (yr 2)</td>
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<td><strong>Intensive Care Nursing:</strong></td>
<td>Applied Biology: Pathophysiology &amp; Pharmacology (yr 2)</td>
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<td>Frameworks for Medical-Surgical Nursing (yr 2)</td>
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<tr>
<td><strong>Intensive Care Nursing:</strong></td>
<td>Applied Biology: Pathophysiology &amp; Pharmacology (yr 2)</td>
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</tbody>
</table>

When not on clinical placement you can expect to spend at least 25 hours each week in guided study and approximately 10 hours in individual study.

The first clinical placement of the course takes place after the Christmas vacation in the first year.
The Sophister (third, fourth & fifth) years

<table>
<thead>
<tr>
<th>Shared Learning Modules (All disciplines)</th>
<th>Discipline-specific Modules</th>
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<tbody>
<tr>
<td>Nurse as Educator Communicator (yr 3)</td>
<td>General Nursing</td>
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<tr>
<td>Research for Nursing Practice (yr 3)</td>
<td>The Principles and Practice of General Nursing (yr 3)</td>
</tr>
<tr>
<td>Management Leadership in Nursing (yr 3)</td>
<td>Applied Biology: Pathophysiology &amp; Pharmacology (yr 3)</td>
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<tr>
<td>Personal &amp; Professional Development (yr 3)</td>
<td>Sociology for General Nursing (yr 3)</td>
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<tr>
<td>Biology: Advanced Anatomy &amp; Physiology (yr 3)</td>
<td>The Psychology of Illness, Grieving and Trauma (yr 3)</td>
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<tr>
<td>Sociology of Health and Illness (yr 3)</td>
<td>Contemporary Issues in General Nursing</td>
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<tr>
<td>Personal &amp; Professional Development (yr 4)</td>
<td>(including biology, psychology &amp; sociology) (yr 4)</td>
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<tr>
<td>Growth &amp; Development – reflective workshops (yr 4)</td>
<td>Psychiatric Nursing</td>
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<td></td>
<td>Introduction to Psychosocial interventions for clients with severe MH problems (yr 3)</td>
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<td>Mental Health Nursing: Care of the Older Person (yr 3)</td>
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<td>Mental Health Nursing: Community Care and Rehabilitation (yr 3)</td>
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<td>Biology: Applied Pathophysiology &amp; Pharmacology (yr 3)</td>
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<td>Sociology for Psychiatric Nursing (yr 3)</td>
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<td>Abnormal Psychology (yr 3)</td>
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<td>Contemporary Issues in Psychiatric Nursing</td>
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<td>(including biology, psychology &amp; sociology) (yr 4)</td>
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<td>Sociology for ID Nursing (yr 3)</td>
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<td>Psychological Perspectives on Mental Health Nursing (yr 3)</td>
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<td></td>
<td>All modules as per General Nursing, plus:</td>
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<td></td>
<td>The Individual Child and Family in health and Illness:</td>
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<td>The Well Infant /Child (yr 3)</td>
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<td></td>
<td>The Adolescent and their Family in Health and Illness (yr 4)</td>
</tr>
</tbody>
</table>

During fourth year (and fifth year, where applicable), you will be on a 36-week roster of continuous placement and you will be a paid health service employee.

Further information

www.tcd.ie/Nursing_Midwifery
Tel: +353 1 896 2692
Email: nursing.midwifery@tcd.ie
What is occupational therapy?

Occupational therapists work with people whose performance and participation in everyday living has been disrupted by disability, physical injury or illness, developmental problems, psychological problems and/or social and environmental impediments. By enabling people to engage in activities that hold meaning for them, occupational therapists aim to help people improve their day-to-day quality of life.

Occupational therapy is concerned, not only with the ability of the individual to perform self-care, leisure and productive activities, but also with the impact of the environment on the person’s life. Occupational therapy interventions consider:

- **The individual person** – improving or maintaining their level of physical, cognitive (thinking), affective (emotional) and social ability.

- **The occupation** – examining the self-care, leisure and work-related activities people value in their daily lives and making changes to these activities so that they better meet the individual’s abilities.

- **The environment** – manipulating or adapting the physical environment so that it does not impede but, if possible, enhances performance; and influencing the social, cultural and institutional environment in ways that enable variously disabled and disadvantaged people to live as independent a life as possible and reach their full potential.

Occupational therapists work in a variety of clinical and community settings, including hospitals, rehabilitation units, schools, and community health centres. Some 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 help people with intellectual disabilities develop skills such as budgeting so that they can live more independently in the community

- Helping people select and effectively use equipment and appliances, including wheelchairs, dressing aids, computers and other assistive technology, to increase their independence

- Assessing the ability of someone with acquired brain injury to return to work and then modify that person’s work (the job itself and the workplace) to enable this, where possible, to happen.

Is this the right course for you?

Yes, if you are a creative thinker who is open to finding solutions to a multitude of problems and if working with people with diverse abilities is something you enjoy and find stimulating. Visiting an occupational therapy department will give you a good understanding of what is involved in this profession.

Occupational therapy at Trinity

Occupational therapy is based in the Trinity Centre for Health Sciences in a new purpose-built complex at St James’s Hospital. This complex houses other Health Sciences disciplines and gives a multidisciplinary dimension to studying and working with other health professionals.

The Centre is about 2 miles from the main campus and is beside a Luas station on the line running between Tallaght and Connolly Station in the city centre.

Course content

This four-year degree course incorporates a practical approach to solving problems and fosters a research-oriented and reflective attitude.

The Freshman years

The courses studied in the Freshman (first two) years include the Study of Occupation, Occupational Therapy Theories and Interventions, Anatomy, Physiology, Psychology, Psychiatry, Medicine & Orthopaedics, Research Methods & Statistics. You will be encouraged to ‘learn by doing’ in subjects related to personal development such as Meaning in Art, Communications and Drama and in courses that teach the professional and technical skills of practice. You will be required to engage in voluntary work and, independently of college tuition, develop skills in an activity of your choice. Experiential and group learning are key teaching methods. There are about 20 teaching hours per week in each of the first two years with additional non-teaching hours also required.

The Sophister years

During the Sophister (third and fourth) years you will further develop your knowledge of the theories, principles and practice of occupational therapy; gain an understanding of health/social care systems and policies and of the importance of practicing in
an evidenced-based manner. Additionally, you will be expected to complete a group research project. There are approximately 20 teaching hours per week and much self-directed research and learning is expected. Over the course of these two years, you will spend a total of 28 weeks in supervised professional practice in a variety of health and community care facilities around the country.

Assessment
Assessment includes written examinations, essays, project work, a research project, and performance while on supervised professional fieldwork.

Study abroad
Students may elect to spend one or more of their professional practice training blocks abroad. To date students have studied/trained in Belgium, Scotland, Australia and USA.

Career opportunities
The course is approved by World Federation of Occupational Therapists, which means as soon as students complete their degree they are qualified to work as occupational therapists in Ireland and worldwide. 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. The areas in which occupational therapists work are expanding – some now work in schools and in private practice; others work with people who are homeless and people who are in prison; and others run healthy living and stress management clinics. A number of occupational therapists move into management – managing occupational therapy departments or other health/social care related services. Additionally, the course offers many opportunities for further study.

Did you know?
The course is the longest established university-based occupational therapy course in Ireland and has an excellent track record of employment in Ireland and abroad. It uses many innovative teaching methodologies, e.g. peer education, problem-based learning, as well as more traditional methods. Students and staff collaborate on projects that involve both research and service delivery in new areas of practice. For example, students facilitate a staff-led advocacy project for people with intellectual disabilities and are involved in a homework club for children with Aspergers Syndrome.

Further information
www.tcd.ie/Occupational_Therapy
Email: micoantc@tcd.ie; Tel: + 353 1 896 3210
www.wfot.org.au

Pharmacy
COURSE CODE: TR072
PLACES 2007: 70
POINTS 2006: 555*
DEGREE AWARDED: B.Sc. (Pharm.)

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate OC3 or HD3 Mathematics
HC3 Chemistry
HC3 In one of physics, biology, mathematics, applied mathematics, geography, geology or agricultural science
GCSE Grade B Mathematics
Advanced GCE (A-Level) Grade C Chemistry
Grade C In one of physics, biology, mathematics, geology, geography or applied mathematics

What is pharmacy?
Pharmacy is the study of all aspects of drugs, both natural and synthetic in origin, including their chemistry, their uses in medicines, and how they work within the body. Pharmacists work in a variety of settings – community pharmacies, hospitals, long-term care facilities, and within the pharmaceutical industry to name just a few. In many respects, their role as a key healthcare professional is to help people achieve the best results from their medications.

Is this the right course for you?
While this degree is an essential requirement if you wish to practice as a community or hospital pharmacist, pharmacy at Trinity opens a wide variety of professional opportunities in both industry and the healthcare sector.

As much of the course is scientifically led, a strong interest in this area will be important and will make your four years of study more enjoyable.

Course content
The pharmacy syllabus has been designed to provide you with an all-round education in both the basic and pharmaceutical sciences, and in the practice of pharmacy itself. There are approximately 16 hours of lectures, 6 laboratory sessions and 1 tutorial per week over the course of the Junior Freshman (first) year.

The course comprises different types of study:

Orientation & Study Skills: This course will provide an orientation to the College and to the study skills needed for the degree course.

Supervised study: this is in the form of lectures, practical laboratory classes, tutorials, workshops and seminars.
**Problem-based learning**: uses a theme to provide problems that students work in facilitated groups to solve. The problems cover a range of subjects and in this way the integration of knowledge from each of the subjects is encouraged.

**Guided study**: this is directed but unsupervised study undertaken outside formal hours.

Over the four years you will study a series of subjects. Some are the recognised pharmaceutical sciences such as pharmaceutics, pharmaceutical chemistry, pharmacognosy and pharmacology. Other sciences, like chemistry, biology, mathematics, physiology, biochemistry and microbiology, promote an understanding of the basics which underpin the applied pharmaceutical sciences. Some integrated topics, for example, pharmaceutical analysis feature contributions from a number of academic areas. Other subjects relate to the practice of pharmacy and the role of the pharmacist in a professional setting.

**Biology**: a basic introduction to the molecular and cellular basis to life so that you can better appreciate how drugs and medicines work. It also includes introductory genetics, microbiology and developmental biology.

**Physiology**: the biology of the human body is an essential prerequisite to the study of pharmacology. Physiology covers the anatomy and physiology all the major body systems, such as blood, the heart, digestive and nervous systems.

**Biochemistry**: a basic introduction to the ways in which drugs are metabolised and how they act or cause toxicity by interacting with basic systems within cells and tissues.

**Microbiology**: studies bacteria, fungi and viruses. These are particularly important in pharmacy because these organisms cause so many diseases. Some medicines must be made free of microbes by either sterilisation or by being prepared aseptically.

**Pharmaceutical, organic & bioinorganic chemistry**: this course covers the organic chemistry of pharmaceutical materials as well as inorganic chemistry relevant to pharmacy.

**Medicinal chemistry**: this covers the principles of drug design and isolation.

**Pharmaceutical Analysis**: this subject deals with the theory and practice of pharmaceutical analysis.

**Physical pharmacy**: a course covering the fundamental physiochemical principles of pharmacy of importance to formulation design, performance and stability.

**Pharmaceutical calculations & data handling**: teaches both mathematics and data handling to assist you with the application of both in pharmaceutical calculations and statistics.

**Practice of pharmacy**: this subject examines what pharmacists do in each of the areas of professional practice and because this involves working with patients, their families and others in the health service it also includes sociological and psychological subjects as well as a study of the health service.

**Pharmaceutics and pharmaceutical technology**: this subject is concerned with the formulation, production and evaluation of all types of medicines such as tablets, creams and injections.

**Pharmaceutical chemistry**: deals with aspects of the sources, identification, analysis and stability of the materials used in medicines. Additional topics include advanced drug discovery and design, molecular mode of action of drugs and the chemistry of drug metabolism.

**Pharmacognosy**: is the study of plants and animals, as well as substances extracted from them, which are used in pharmacy and are active in the treatment and prevention of diseases.

**Pharmacology**: develops the knowledge about how drugs work at the molecular, biochemical and cellular level that is essential if drugs are to be used effectively to treat disease in humans and in animals. The course also gives an appreciation of factors affecting the therapeutic benefits and adverse risks of medicines.

**Pharmaceutical biotechnology**: develops an understanding of how genetics and biotechnological methods can be used to develop new drugs, especially proteins.

In the final year you will undertake a research project and will also prepare a dissertation on an aspect of pharmacy practice linked to a community, hospital or industry option of your choice. In the past students have chosen the following as subjects for investigation:

- Validation of high performance liquid chromatography method for measuring penicillin V
- Physicochemical properties of anticancer prodrugs of butyric acid
- Molecular modelling and structure-activity study of new oestrogen receptor agonists and antagonists
- Gene delivery medicines
- ‘Smart’ polymeric drug delivery systems
- Internet pharmacy
- Determination of harpagoside content of herbal remedies containing Devil’s Claw
- Isolation of valerenic and hydroxyvalerenic acid from valerian (Valeriana officinalis)
- A quality evaluation of herbal products containing Ginger and an overview of the evidence for their efficacy and safety
Assessment
A combination of continuous assessment and oral and written end-of-year examinations is used. Senior Sophisters (fourth year students) are also required to submit a thesis based on their projects.

Career opportunities
Your career prospects as a pharmacy graduate are excellent. Employment opportunities exist in community, hospital and industrial pharmacy, as well as in state services such as medicines licensing. In addition, you can opt to undertake research, or apply for entry to one of the postgraduate courses in hospital, industrial or community pharmacy.

Further information
www.tcd.ie/Pharmacy
Tel: + 353 1 896 2809

The pharmacy degree and professional qualification
The pharmacy degree alone does not entitle you to practise as a pharmacist.

After graduation you will be required to undertake a one-year training period and to sit the Pharmaceutical Society of Ireland’s Licence Examination.

The pre-registration training year may be taken in a range of pharmaceutical settings including hospital, community and industrial environments.

The B.Sc. (Pharm.) degree is in full compliance with the EU directives governing free movement of pharmacists, entitling graduates to register and work throughout the EU (including Northern Ireland) following registration with the Pharmaceutical Society of Ireland.

Physiotherapy

COURSE CODE: TR053
PLACES 2007: 40
POINTS 2006: 550*
DEGREE AWARDED: B.Sc. (Physio.)

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate OC3 or HD3 Mathematics
HC3 In two of physics, chemistry, biology, physics/chemistry, mathematics or agricultural science
GCSE Grade B Mathematics
Advanced GCE (A-Level) Grade C In two of physics, chemistry, biology, or mathematics

Combinations of subjects not permitted:
Physics/chemistry with physics or chemistry
Agricultural science with biology

GARDA VETTING:
Students will be required to undergo Garda vetting. See p. 11 for further details

What is physiotherapy?
Physiotherapy – or physical therapy – places full and functional movement at the heart of what it means to be healthy. It involves treating patients of all ages with a range of illnesses and conditions, including those with back and neck problems, sports injuries, arthritis, or those recovering from strokes and operations. The methods employed include exercise therapy, manipulative procedures, and a variety of electrical treatments.

Physiotherapists may be part of a multidisciplinary medical team that includes physicians, nurses, speech and language therapists, psychologists, occupational therapists and social workers among others. Alternatively they may work from clinics or specialise in particular areas of the discipline.

Is this the right course for you?
Physiotherapy is both physically and academically demanding and you will need to have considerable emotional stability. Visiting a local general hospital or other area where physiotherapists work will give you a good understanding of what exactly is involved.

Physiotherapy at Trinity
Physiotherapy is based in the Trinity Centre for Health Sciences in a new purpose built complex at St James’s Hospital. This complex houses other Health Science disciplines and allows physiotherapy students to share courses with those in the other health sciences to give a multidisciplinary approach to studying and working.

The Centre is about 2 miles from the main campus and is beside a Luas station on the line running between Tallaght and Connolly Station in the city centre.
Course content
The major objective of this four-year course is to enable you to become a competent professional with the ability to work independently with patients.

There are two components to physiotherapy: theory and clinical practice. In the first year the emphasis is on laying a foundation of theoretical knowledge and the second year introduces students to the clinical skills and procedures used by physiotherapists. Clinical sciences are taught mainly in the second and third years. In the third and fourth years students spend up to fifty percent of time on clinical placement. In the fourth year students have an opportunity to develop specialist knowledge in a particular area of physiotherapy and undertake a research project.

The Freshman years
As a Freshman (first and second year) student you will have approximately 20 hours of teaching each week divided between lecture and practical classes.

Courses covered in the first two years include:
- Physiology
- Anatomy
- Physics
- Chemistry
- Pathology
- Biomechanics and movement – includes procedures to improve strength, mobility and balance
- Electrotherapy procedures – includes the use of electrotherapy to alleviate pain, improve circulation and re-educate muscles
- Manipulative procedures – includes the use of soft tissue massage and manipulations to improve mobility and improve circulation

You will also start to study various conditions and specialities frequently seen in physiotherapy such as respiratory conditions and musculoskeletal conditions.

At the end of second year you will start clinical placements under the supervision of skilled and experienced tutors. These may be taken in hospitals, clinics, day centres or within private and community practice.

The Sophister years
In the Junior Sophister (third) year half of the time is spent on academic studies and the other half on clinical placements in a variety of settings both within and outside the Dublin area.

In the Senior Sophister (fourth) year, you will undertake an investigative project on a topic related to physiotherapy in conjunction with advanced study in an area of your choice. Examples of subject choices available include care of the elderly, paediatrics, women’s health, sports injuries and pain.

Assessment
End-of-year written examinations and tests in certain subjects, such as anatomy, make up the theoretical assessment structure.

In addition, you will be continuously assessed during your clinical placement and will have practical exams on the skills element of the course, including your assessment of a patient while on a clinical placement.

Career opportunities
Successful completion of the course entitles you to membership of the Irish Society of Chartered Physiotherapists, the accrediting body for Physiotherapy in Ireland.

Physiotherapists are sought throughout the world and you will be able to work with a wide range of conditions or to specialise, as you wish. There is also great scope for you to continue to develop your skills and expertise in areas such as manipulative therapy, sports injuries, neurology, cardiology, respiratory, research, education, management or private practice.

Did you know?
All students will have clinical placements at Trinity’s associated teaching Hospitals of St. James’s and AMNCH in Tallaght where there is an established expertise in most areas of physiotherapy. These placements allow students to gain experience in some of the specialist areas of physiotherapy including neurology, respiratory care, coronary care, orthopaedics, women’s health, care of the elderly, sports and out-patients.

Further information
www.tcd.ie/Physiotherapy
Tel: + 353 1 896 2110/1
Radiation therapy

COURSE CODE: TR055
PLACES 2007: 25
POINTS 2006: 500*

DEGREE AWARDED: B.Sc. (Ther. Rad.)

SPECIAL ENTRY REQUIREMENTS:
Leaving Certificate  HC3 in one of physics, chemistry, biology, physics/chemistry
Advanced GCE (A-Level) Grade C in one of physics, chemistry or biology

GARDA VETTING:
Students will be required to undergo Garda vetting. See p. 11 for further details.

What is radiation therapy?
Radiotherapy is one of the main methods used to treat patients with cancer. This course qualifies you to work as a radiation therapist – the practitioner who is responsible for the delivery of a course of radiotherapy.

When you qualify, you will work with clinical oncologists and physicists to plan and deliver the best course of treatment for patients. As a graduate radiation therapist you will be the main point of contact for the patient during the course of their treatment and involved in many aspects of their care. As radiotherapy is expanding rapidly in Ireland so is the opportunity for role development making this an exciting time to be entering the profession.

Is this the right course for you?
The radiation therapist requires very specialist skills. Your degree will cover a lot of science subjects so you will have to have a keen interest in biology, physics and chemistry. The development of your clinical skills requires you to be interested in patient care as well. Your job will also be both physically and emotionally demanding.

Course content
This four-year degree gives you a broad academic base on which to develop the clinical skills of radiotherapy. It qualifies you to analyse, evaluate and make decisions and to initiate, participate in and encourage research into the profession. There are both theoretical and clinical components to this degree, the emphasis being more on the theoretical component in the first two years and more on the clinical and research component in the last two years. The contact hours are high in this course and the subjects are taught through lectures, laboratory based practical sessions, workshops and tutorials.

The Division has the largest radiotherapy treatment planning laboratory in Europe and is the hub of a sophisticated teleconferencing system that facilitates links both nationally and internationally. This system is used both clinically and academically.

The Freshman years
The first two years of the course cover the basic sciences – physics, chemistry and biology. You will also study the structure and function of the human body through anatomy, physiology, biochemistry and genetics, and will be introduced to psychology, pathology and basic professional attitudes and skills.

A clinical component will introduce you to radiotherapy and will develop your understanding of the complexities of the cancer patient pathway.

The Junior Freshman year
In the Junior Freshman (first) year there are approximately 20 - 30 hours per week in class or 35 hours per week in clinical placement.

The subjects you will cover in class are:
- Biology
- Physics
- Chemistry
- Professional studies

You will spend 2 months in a clinical setting.

The Senior Freshman year
Second year courses include:
- Biochemistry
- Physiology
- Anatomy
- Medical and radiation physics
- Introduction to Cancer Medicine
- Psychology
- Communication and counselling skills

You will spend 6 weeks in a clinical setting.

The Sophister years
In the Sophister (third and fourth) years, you will study more specialist subjects that are specifically related to cancer and patient care, and complete a project in this area.

Subject areas include:
- Cancer and its overall management
- The professional skills of radiotherapy
- Counselling and communication
- Health care management
- Radiotherapy Treatment Planning and Physics

A significant clinical component is also part and parcel of the final two years. The clinical sites are the radiotherapy departments attached to St. Luke’s Hospital, Dublin, Cork University Hospital, the Mater Private Hospital, Dublin, St. Vincent’s Private Hospital, Dublin, University College Hospital Galway, The Galway Clinic, and The Limerick Clinic. Clinical placement is 4 months in Junior Sophister (third) year and 5 months in Senior Sophister (fourth) year.
Assessment
This course will be assessed by written end-of-year examinations, project work and continuous assessment. A clinical portfolio and research project are the main assessment processes in your final year.

Throughout the course you will be examined in both theoretical and clinical subjects, and must satisfactorily complete your clinical component. Part of the clinical programme will take place during the vacation periods.

Career opportunities
There is a worldwide need for radiation therapists, so you should have no difficulty finding employment when you graduate. A planned major expansion in radiotherapy services will take place in Ireland over the next 5 years providing significant job opportunities.

The broad scientific content of the degree also means that you will be well qualified to start a career in research and development, medical technology, or the marketing of products associated with cancer medicine in particular, and in the health sector generally.

Did you know?
There are information days held throughout the year for students interested in finding out more about radiation therapy.

For details of the next information day please contact Jill Byrne on: + 353 1 896 3250.

Further information
www.medicine.tcd.ie/radiation_therapy
Tel: + 353 1 896 3248/3234
Email: mcoffey@tcd.ie or dougallm@tcd.ie

Bachelor in Midwifery Studies
DEGREE AWARDED: B.M.S.

APPLICATION PROCEDURE:
This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 31st March 2008 for entry to the academic year commencing in October 2008.

Application forms are available from:
Admissions Office, West Theatre, Trinity College, Dublin 2.
Tel: + 353 1 896 2003/3664
Email: admissions@tcd.ie

Registered nurses and midwives in the employment of public health care agencies may apply to their health service employer for inclusion in the Department of Health and Children’s part-time fees initiative. Where fees are not paid by the health service employer, students registered for the B.M.S. will be required to pay tuition fees.

Course overview
Contemporary trends and developments in the delivery of health care present a challenge to the midwifery profession in terms of reclaiming and expanding the midwife’s role and responsibilities.

This degree programme aims to provide practicing midwives with an increased level of knowledge, skills and attitudes about the principles and processes of practice. The programme will:

- develop students’ knowledge of the nature of midwifery
- enable students to analyse the full extent of the midwife’s role and to consider a range of issues relevant to contemporary midwifery practice
- challenge students’ thinking and assumptions about the profession

Who is eligible to apply?
Midwives who hold registration as a midwife with An Bord Altranais, the Irish nursing board, and who qualified with the Diploma in Midwifery (or equivalent), may apply for admission into this one-year programme leading to a Bachelor in Midwifery Studies honors degree.

Midwives already holding registration as a midwife with An Bord Altranais but without the Diploma in Midwifery (or equivalent) may apply for admission to a one-year part-time Access to Degree programme which, on successful completion, will allow access to the beginning of the degree year.

Course structure
This course takes place over one academic year on a part-time basis. You will be required to attend the University for one study week at the beginning of the course and one day a week throughout the academic year. Although there is no specific clinical component, students are expected to be practising midwifery whilst undertaking the course and will undertake an assignment which has a particular practice based focus.
Course content
The course comprises five modules:
- Governance in midwifery practice
- Expectant approach to midwifery practice
- Health care quality and informatics
- Communication and the facilitation of learning in midwifery practice
- Research methods

Assessment
Assessment methods are designed to require both an analytical approach to reading and reference to the student’s own practice. A combination of essays, projects and group work is used and a research proposal forms part of the research methods module.

Further information
www.tcd.ie/Nursing_Midwifery/courses/undergrad_bms_hons.php
Tel: +353 1 896 2692
Email: nursing.midwifery@tcd.ie

Bachelor in Nursing Studies
DEGREE AWARDED: B.N.S.

APPLICATION PROCEDURE:
This is not a CAO course. Students are required to apply directly to the University. Completed applications must be returned by 31st March 2008 for entry to the academic year commencing in October 2008.

Application forms are available from:
Admissions Office, West Theatre, Trinity College, Dublin 2
Tel: +353 1 896 2003/3664
Email: admissions@tcd.ie

Registered nurses and midwives in the employment of public health care agencies may apply to their health service employer for inclusion in the Department of Health and Children’s part-time fees initiative. Where fees are not paid by the health service employer, students registered for the B.N.S. will be required to pay tuition fees.

Course overview
Contemporary trends and developments in the delivery of health care have brought about an expansion of the nurse’s role and responsibilities. These developments have resulted in the need to provide the nurse with a depth and breadth of knowledge at graduate level.

This degree programme aims to provide nurses with an increased level of knowledge, skills and attitudes about the principles and processes of practice. The programme will develop students’ knowledge concerning the nature of nursing and challenge their thinking and assumptions about their profession.

Who is eligible to apply?
Candidates who hold registration with An Bord Altranais, the Irish nursing board and who qualified with the Diploma in Nursing Studies (or equivalent), may apply for admission into this one-year programme leading to a Bachelor in Nursing Studies honors degree.

Nurses already holding registration with An Bord Altranais, but without the Diploma in Nursing (or equivalent) may apply for admission to a one-year part-time Access to Degree programme which, on successful completion, will allow access to the beginning of the degree year.

Course structure and content
The Bachelor in Nursing Studies is a part-time modular programme. Lectures are provided one day per week and there is one study week at the start of the academic year in the University of Dublin, Trinity College. Successful completion of the programme will result in the award of a Bachelor in Nursing Studies degree (B.N.S.).

The programme is composed of five compulsory modules, which address current issues in nursing practice and health care.
Leadership and management in nursing practice
Health care quality and informatics
Communication and the facilitation of learning in nursing practice
Contemporary issues in nursing practice
Research methods

Course assessment
All modules are assessed by continuous assessment (assignments). To achieve an overall pass a minimum of 50% must be achieved in each module.

Further information
www.tcd.ie/Nursing_Midwifery/courses/undergrad_bns_hons.php
Tel: +353 1 896 2692
Email: nursing.midwifery@tcd.ie
Index

A
About Trinity College 5
Access initiatives 25
Accommodation 22
Addiction studies 96
Admission requirements 9
Age requirement 11
Alert list 176
An Ghaeilge 24
Ancient history and archaeology 31
Application procedures 6
Arts courses at Trinity 29
Arts, Humanities and Social Sciences 28

B
Biochemistry 126
With cell biology 127
With immunology 128
With structural biology 129
Botany 129
Broad curriculum 18
Business, economic and social studies (BESS) 32
Business studies with a language 35

C
Careers Advisory Service 20
Chaplaincy 21
Chemistry 130
Chemistry with molecular modelling 101
Children’s and general integrated nursing 158
Civil engineering 108
Classical civilisation 36
Classics 38
Clinical speech and language studies 39
College health service 20

Computer engineering 110
Computer science 102
Computer science, linguistics and a language 104
Course requirements 12

D
Day nursery 22
Deaf studies 41
Deferred entry 7
EU applicants 8
Non-EU applicants 9
Dental hygiene 146
Dental nursing 147
Dental science 149
Dental technology 151
Disability Service 22
Making an application as a student with a disability/specific learning difficulties 6
Drama studies 42
Drama and theatre studies 42
Dutch (see Germanic languages) 57

E
Early and modern Irish 66
Early Irish 66
Economics 134
Within BESS 32
Within TSM 44
Education 45
Electronic engineering 111
Engineering 105
Civil, structural and environmental 108
Computer 110
Electronic 111
Electronic and computer 112
Mechanical and manufacturing 113
Engineering, mathematics and science 100
Engineering with management 115
English language requirement 10

172
| English literature | 46 | History | 60 |
| English studies | 46 | History and political science | 62 |
| Environmental engineering | 108 | History of art and architecture | 64 |
| Environmental science | 131 | How to apply | 6 |
| European studies | 49 | Human genetics | 117 |
|                      |     | Human nutrition and dietetics | 152 |
| **F**                |     | **I** |     |
| Fees information | 8 | Important dates for applicants | 177 |
| Film Studies | 52 | Information systems (Diploma & Degree) | 142 |
| French | | Intellectual disability nursing | 158 |
| With business studies | 35 | International Student Affairs Office | 7 |
| With computer science and linguistics | 104 | Irish | 66 |
| Within European studies | 49 | Early and modern Irish | 66 |
| With law | 75 | With computer science and linguistics | 104 |
| Within TSM | 53 | Irish Sign Language/ English interpreting | 68 |
| **G**                |     | **I** |     |
| Gallery, Douglas Hyde | 20 | Irish Sign Language teaching | 97 |
| Garda vetting | 11 | Irish Studies | 69 |
| General nursing | 158 | IT for Trinity students | 18 |
| Genetics | | Italian |     |
| Within science | 132 |  |     |
| Human genetics | 117 |  |     |
| **G**                |     | **L** |     |
| Geography | | Latin | 71 |
| Within science | 133 | Language modules | 18 |
| Within TSM | 55 | **L** |     |
| Geology | | Language modules | 18 |
| German | | Optional courses | 18 |
| With business studies | 35 | Within TSM | 12 |
| With computer science and linguistics | 104 | Law | 73 |
| Within European studies | 49 | With French | 75 |
| With law | 75 | With German | 75 |
| Within TSM | 56 | Learning facilities and services | 18 |
| **G**                |     | **L** |     |
| Germanic languages | 57 | Library | 18 |
| Greek | |  |     |
| **H**                |     | **M** |     |
| Health Sciences | 144 | Management science and information systems studies (MSISS) | 118 |
| Health Service | 20 | Manufacturing engineering | 113 |
Sociology and social policy 94
Spanish 35
With business studies 49
Within European studies 95
Sports clubs 23
Sports, entertainment and dining facilities 19
Sports facilities 19
Sports scholarships 27
Structural engineering 108
Student counselling service 21
Student life at Trinity College 22
Student societies 23
Students' Union 23
Subject requirements 12
TSM 17
Degree courses 14
Ordinary degree and diploma courses 17
Support services for students 20
Swedish (see Germanic languages) 57

**T**
TAP (Trinity Access Programme) 25
Term dates 177
Theology 98
Theoretical physics 141
Trinity Hall 22
Trinity publications 23
Trinity theatres 19
Tutors 20
Two-subject moderatorship (TSM) 30
Permitted combinations 30
Subject requirements 12
Minimum entry points 12

**V**
Vaccinations 145

**W**
Web based course content 19

**Z**
Zoology 140
Alert list – 2008

New courses
TR015 Philosophy, political science, economics and sociology
This course combines philosophy, political science, economics and sociology. Students take all four subjects in first year, three of them in second year, two in third year and either one or two in fourth year. The range of subjects studied opens a variety of employment opportunities to graduates. There will be 20 places available.

TR089 Business studies and Polish
TR090 Business studies and Spanish
Students may now choose Polish (5 places available) or Spanish (10 places available) as their chosen language within the Business studies and a language programme.

New Science option
TR071 Molecular medicine
Molecular Medicine is a new option within the general Science programme. This degree programme has been inspired by the changing needs of medical research. It is a unique collaboration between the School of Biochemistry and Immunology and the School of Medicine, to create a science degree that has a strong emphasis on translational research, i.e. the introduction of medical research advances into direct patient care.

New TSM option
TR320 Film studies with Music

TSM option withdrawn
TR567 Mathematics with Latin

Course withdrawal
TR016 Music and Music Technology is listed in the 2008 CAO Handbook. Please note that this course will NOT commence in 2008. Students should not list this course on their 2008 CAO application forms. It is anticipated that this course will commence in October 2009.

New to CAO
TR804 Deaf studies
TR805 Irish sign language/English interpreting
The above two courses were formerly direct entry programmes, students now apply for these courses via the CAO system. TR805 is a restricted entry course, applicants will be called to attend an interview.

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.

Garda vetting applies to the following courses:

TR007 Clinical speech and language studies
TR009 Music education
TR051 Medicine
TR052 Dental science
TR053 Physiotherapy
TR054 Occupational therapy
TR055 Radiation therapy
TR084 Social studies (Social work)
TR801 Dental nursing
TR802 Dental hygiene
TR804 Deaf studies
TR805 Irish sign language/English interpreting
TR091-914 All nursing and midwifery courses
Addiction studies
Irish sign language teaching
## Term Dates 2008-2009

See www.tcd.ie/Admissions

### Important dates for applicants

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 December 2007</td>
<td>TCD Open Day.</td>
</tr>
<tr>
<td>17 January 2008</td>
<td>TCD mature student information evening.</td>
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<tr>
<td>1 February 2008</td>
<td>Early Closing Date for CAO.</td>
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<tr>
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<td>Applications to restricted entry courses and applications from mature students must be made to the CAO by this date.</td>
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<tr>
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<td>Submission of Mature Student supplementary application form to Admissions Office, West Theatre, Trinity College (for all full-time courses except Nursing and Midwifery).</td>
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<td>Applications from non-EU students wishing to pursue a full degree other than Medicine or Dental science should be submitted to the Office of International Student Affairs, East Theatre, Trinity College, Dublin 2.</td>
</tr>
<tr>
<td>1 March 2008</td>
<td>Closing date for applications to sit the University Matriculation Examination.</td>
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<tr>
<td></td>
<td>Applications from EU and non-EU students wishing to study as a visiting student for up to one academic year should be submitted to the Office for International Student Affairs.</td>
</tr>
<tr>
<td>29 March 2008</td>
<td>Provisional date for Music and Music Education entrance examination.</td>
</tr>
<tr>
<td>1 May 2008</td>
<td>Late Closing Date for CAO.</td>
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<tr>
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<td>Late applications to restricted entry courses will not be considered.</td>
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<tr>
<td></td>
<td>Late applications from mature students will not be considered.</td>
</tr>
<tr>
<td>31 May 2008</td>
<td>Closing date for receipt of applications for the Reid Entrance Exhibition.</td>
</tr>
<tr>
<td>1 July 2008</td>
<td>Closing date for submission of a 'Change of Mind' to CAO.</td>
</tr>
</tbody>
</table>
OPEN DAY

Wednesday 12th December 2007
9.00 am to 3.00 pm.

Final year students, their parents/guardians, teachers
and guidance counsellors are invited to attend.

Full details will be available at
www.tcd.ie/admissions in late November.

MATURE STUDENT
OPEN EVENING

Thursday, 17 January 2008
4.30 p.m. to 7.30 p.m.

Mature students, teachers and guidance counsellors
are invited to attend.

Information on undergraduate courses
and the mature student application process
will be available.

For further information please contact
mature.student.officer@tcd.ie
A Message from the Provost

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

Recognised internationally as Ireland’s leading university, Trinity College Dublin is the only Irish university ranked in the top 100 world universities (78th) and amongst the top 50 European universities (25th), by the 2006 Times Higher Education Supplement (THES) world university rankings.

Founded in 1592, Trinity College is also the oldest university in Ireland and one of the older universities of Western Europe. Today the College has over 15,000 students and presents opportunities to make friends with students from every county in Ireland and from over 90 countries worldwide. Not only is the student body diverse in nationality and culture but also in social experience, representing talented students from a wide range of backgrounds and age-groups.

Trinity has a number of important priorities for its students. Every incoming student is assigned a Tutor, a member of staff, who is there to advise you and help if any personal problem arises. Trinity’s Tutorial System is unique in Ireland.

The College’s curriculum and teaching, with over 400 undergraduate courses on offer, is aimed not just at gaining knowledge but at developing critical thinking, the spirit of enquiry, and contact with research at every stage of the undergraduate programme. You will learn to think for yourself, to learn from your mistakes, and refine your mind to be able to cater for whatever the changing world may throw at you. These skills are for life.

The ‘Trinity Experience’ is a chance in a lifetime for personal development in the widest sense. Trinity has a multitude of diverse and colourful societies and clubs which contribute much to the life and fabric of the university and community. There are some 50 sports clubs and almost 100 student societies to participate in, with something to suit all interests.

Located in the heart of Ireland’s vibrant capital city, close to all major transport links, TCD students can avail of the many attractions and facilities Dublin has to offer. The campus, stretching over 40 acres, has a wonderful mix of historical buildings and state-of-the-art facilities. Two exciting developments on campus are the newly opened Sports Centre, including a 25m swimming pool, and the Science Gallery, a national initiative which celebrates science and technology through interactive exhibitions, events, discussions and debates.

Committed to excellence in both research and teaching, Trinity College Dublin guarantees a distinctive all-round undergraduate experience that will change your life forever. As a student you feel a great sense of history, of walking in the footsteps of famous graduates and of drawing from the past to create the future, as many graduates have done. I hope you will consider joining us to study here and look forward to welcoming you on campus.

John Hegarty
Provost
July 2007
Copies of this publication are available free of charge from
The Admissions Office
West Theatre
Trinity College
Telephone: +353 1 896 1000
Fax: +353 1 872 2933
Email: admissions@tcd.ie
Website: www.tcd.ie

The Board of Trinity College is not bound by errors in or omissions from this publication