



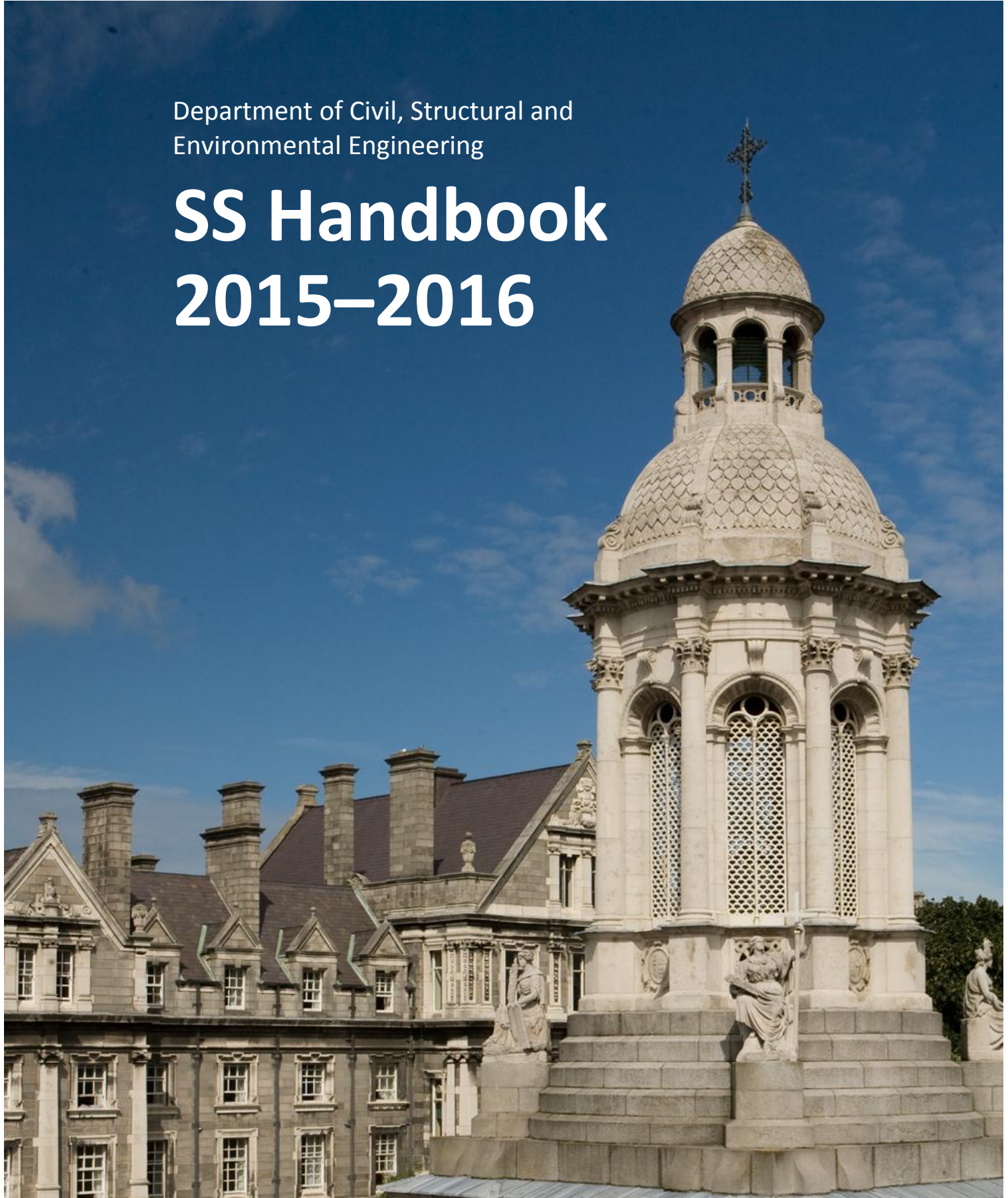
**Trinity College Dublin**

Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin

Department of Civil, Structural and  
Environmental Engineering

# SS Handbook 2015–2016



# Contents

## Contents

A Note on this Handbook.....	3
Year Overview.....	3
BAI stream.....	3
MAI stream .....	3
Modules .....	4
Examinations.....	4
Assignments.....	5
College Regulations .....	5
Plagiarism .....	5
European Credit Transfer System (ECTS) .....	6
Placement and Pre-requisites Information.....	7
SS Co-ordinator .....	8
Civil Engineering Library .....	8
Safety Officer .....	8
Web Notes .....	8
Key Dates: 2015-2016.....	8
Examination Dates .....	8
Academic Skills for Successful Learning .....	<b>Error! Bookmark not defined.</b>
Contacting Academic Registry .....	<b>Error! Bookmark not defined.</b>
Student Health Service Information .....	11
Student 2 Student.....	11
Staff List .....	12

## A Note on this Handbook

This handbook applies to all students taking Civil Engineering. It provides a guide to what is expected of you on this programme, and the academic and personal support available to you. Please retain for future reference.

The information provided in this handbook is accurate at time of preparation. Any necessary revisions will be notified to students by e-mail. Please note that, in the event of any conflict or inconsistency between the General Regulations published in the University Calendar and information contained in course handbooks, the provisions of the General Regulations will prevail.

## Year Overview

### **BAI stream**

SS students who have not opted, or are not eligible, to progress to the MAI programme take modules equating to 45 ECTs and undertake an individual final year project worth 15 ECTs. In the first semester, students take Management for Engineers and four civil engineering modules. In the second semester students take four modules. The submission date for the final year project dissertation will be announced by Prof. Brian Caulfield.

### **MAI stream**

Eligible students who have elected to complete the MAI programme follow one of three modes.

#### **Mode 1**

Students spend both semesters in Trinity College. In the first semester students take Management for Engineers and four civil engineering modules. In the second semester students take four civil engineering modules. In addition, students undertake a group design project. This project is worth a total of 15 ECTs: 5 ECTs are awarded for the work carried out during the first semester and 10 ECTs are awarded for the work undertaken in the second semester.

#### **Mode 2**

Students spend the first semester in Trinity College following the same course of study as students following mode 1. In the second semester students complete an industry-based project. This project is worth 30 ECTs and represents a substantial body of work. Students following this mode will have two project supervisors: a staff member of the host company and a member of the Department's academic staff.

#### **Mode 3**

Students may opt to spend the fourth year on the Cluster/Unitech programme in a partner University, or on an Erasmus exchange.

Students who do not achieve a grade of II.1 or higher in their Junior Sophister year may be interviewed by the Department as part of the selection process for entry onto the MAI programme.

## Modules

Module code	Module title	Co-ordinator	ECTS
CE4E1	Management for Engineers	Prof. Niamh Harty	5
Civil Engineering modules (first semester)			
CE4A31	Environmental Engineering 1	Prof. Laurence Gill	5
CE4A4	Hydraulics	Prof. Aonghus McNabola	5
CE4A51	Geotechnical Engineering 1	Prof. Trevor Orr	5
CE4A61	Structural Design ('Structures 1')	Prof. Brian Broderick	5
Civil Engineering modules (second semester)			
CE4A1	Civil Engineering Materials	Prof. Sara Pavia	5
CE4A2	Hydrogeology and Engineering Geology	Prof. Bruce Misstear	5
CE4A62	Advanced Design of Structures ('Structures 2')	Prof. Alan O'Connor	5
CE4A8	Transportation	Prof. Brian Caulfield	5
Projects			
CE4E2	Civil Engineering Project (BAI students only)	Prof. Brian Caulfield	15
CE4E2b	Civil Engineering Design Group Project (Part 1)	Prof. Brian Caulfield	5
CE4E2c	Civil Engineering Design Group Project (Part 2)	Prof. Brian Caulfield	10
CE4E4	Trinity Industrial Partnership Project (Civil)	Prof. Brian Caulfield	30

Module descriptors can be found online on student's Portal Pages under Courses & Modules.

## Examinations

Examinations in all the above modules take place at the end of the first semester and at the end of the second semester (April/May). All examinations are two hours long.

The School of Engineering examination rules will be set out on the School of Engineering website, including details of the assessment procedure used to determine the BAI degree grade awarded to each student.

## Assignments

Assignments should be submitted to the Assignment Boxes on the first floor of the Museum Building, beside the coffee machine, unless advised otherwise. Cover sheets should be fully completed and attached to all assignments submitted.

## College Regulations

The College regulations are detailed in the College Calendar and students are expected to be aware of these regulations. As in law, ignorance of the regulations does not constitute a defence. The calendar is available in the College libraries among other places.

## Plagiarism

In the academic world, the principal currency is *ideas*. As a consequence, you can see that *plagiarism* – i.e. passing off other people's ideas as your own – *is tantamount to theft*. It is important to be aware the plagiarism can occur knowingly or unknowingly, and the offence is in the action not the intent.

Plagiarism is a serious offence within College and the College's policy on plagiarism is set out in a central online repository hosted by the Library which is located at <http://tcd-ie.libguides.com/plagiarism>. This repository contains information on what plagiarism is and how to avoid it, the College Calendar entry on plagiarism and a matrix explaining the different levels of plagiarism outlined in the Calendar entry and the sanctions applied.

Undergraduate and postgraduate new entrants and existing students, are required to complete the online tutorial '**Ready, Steady, Write**'. Linked to this requirement, all cover sheets which students must complete when submitting assessed work, must contain the following declaration:

**I have read and I understand the plagiarism provisions in the General Regulations of the University Calendar for the current year, found at: <http://www.tcd.ie/calendar>**

**I have also completed the Online Tutorial on avoiding plagiarism '**Ready, Steady, Write**', located at <http://tcd-ie.libguides.com/plagiarism/ready-steady-write>**

Plagiarism detection software such as "Turnitin" and Blackboard's "SafeAssign" may be used to assist in automatic plagiarism detection. Students are encouraged to assess their own work for plagiarism prior to submission using this or other software.

Plagiarism is serious whether the plagiarism is deliberate or has arisen through carelessness.

The key areas of the SS year where plagiarism may be an issue are laboratory and site visit reports and the SS Project. Be careful when you are writing a report to make sure that you reference your work properly, giving credit to the sources you have used. Please note that any assignments, projects or continuous assessment submitted by students for assessment may be checked for plagiarism through the internet or through software packages, such as Turnitin.

When submitting individual work, make sure that the work is your own. For example, a literature review chapter within your project dissertation must be written in your own words. Where the material is being repeated verbatim from published, web or other sources, you should use inverted commas, italics and/or present the material in a separate paragraph, to make it clear to the reader that you are quoting directly (and you must reference the source).

For example, the following passage uses both references and direct quotation:

In 1676 Robert Hooke was the first to realise that the ideal shape for an arch ring is that of a funicular polygon (Heyman 1982). He found the shape of funicular polygons experimentally by hanging weights from a string and published this fact in the form of an anagram; whose solution is “*Ut pendet continuum flexile sic stabit contiguum rigidum inversum*” - as the continuous flexible hangs downward so will the continuous rigid stand upward inverted (Hooke 1676).

Where the first reference refers to:

Heyman J., 1982, “The Masonry Arch”, Ellis Horwood, Chichester

## European Credit Transfer System (ECTS)

The ECTS is an academic credit transfer and accumulation system representing the student workload required to achieve the specified objectives of a study programme.

The ECTS weighting for a module is a measure of the student input or workload required for that module, based on factors such as the number of contact hours, the number and length of written or verbally presented assessment exercises, class preparation and private study time, laboratory classes, examinations, clinical attendance, professional training placements, and so on as appropriate. There is no intrinsic relationship between the credit volume of a module and its level of difficulty.

In College, 1 ECTS unit is defined as 20-25 hours of student input so a 10-credit module will be designed to require 200-250 hours of student input including class contact time and assessments.

The College norm for full-time study over one academic year at undergraduate level is 60 credits.

ECTS credits are awarded to a student only upon successful completion of the course year. Progression from one year to the next is determined by the course regulations. Students who fail a year of their course will not obtain credit for that year even if they have passed certain component modules. Exceptions to this rule are one-year and part-year visiting students, who are awarded credit for individual modules successfully completed.

## **Placement and Pre-requisites Information**

The MAI programme is structured to facilitate delivery of higher-level content through prerequisite modules. The term 'prerequisite' indicates a module which it is strongly recommended to complete prior to engaging a new one. Only in exceptional circumstances will a student be permitted not to complete prerequisite modules. Some of the fourth year modules are prerequisites for some of the fifth-year modules and some MAI projects in the different disciplines. In general, it will not be possible to take fifth-year modules or MAI projects without having completed the required prerequisites for these activities (see module descriptors for details). Accordingly, for students opting for a placement in their fourth year, or for those following Unitech/Erasmus or another period of study abroad, it will be necessary to ensure prerequisites are met for a suitable set of modules and the project work in the fifth-year.

Meeting the prerequisites in cases where a student opts for a placement in their fourth year, or for those following Unitech/Erasmus or another period of study abroad might be achieved by:

1. in the case of a half-year placement, the student taking the prerequisite modules for their intended fifth-year modules/project work in the semester they spend at College (this will generally be the first semester). Prerequisite modules will, where possible, be timetabled for the first semester.
2. in the case of a period of study abroad, the student taking modules equivalent to the prerequisites for their intended fifth-year modules/project work during their period of study abroad in their fourth year
3. by the student taking only fifth-year modules/projects which do not have prerequisites
4. by student taking fourth year prerequisite modules in the first semester of their fifth-year. However, for the latter option, since this would be on a case-by-case basis, the timetable cannot be specifically arranged to facilitate this.

Thus, a student who opts for a placement or for a period of study abroad must understand that this will influence their options in the fifth-year. Accordingly, a student intending to pursue this option must do so in consultation with their Head of Department or his/her delegate. In special

circumstances, where a student can demonstrate to the module coordinator that he/she has substantially met the learning outcomes of a prerequisite module through other means, students may be allowed to take the fifth-year module without having completed the designated fourth year prerequisite(s).

## **SS Co-ordinator**

Professor Brian Caulfield is the academic member of staff responsible for the Senior Sophister Civil Engineering class. If you have any questions relating to the SS course, Prof. Caulfield will be happy to help. His email address is [brian.caulfield@tcd.ie](mailto:brian.caulfield@tcd.ie)

## **Civil Engineering Library**

The Civil Engineering Library is located in the Museum Building, close to the main Civil Engineering Office. The opening hours in term are Monday – Thursday from 3.30pm – 5.30pm.

## **Safety Officer**

Professor Dermot O'Dwyer is the member of the academic staff who deals with safety. If you have any questions or concerns relating to safety you should contact Dr. Dermot O'Dwyer at [dwodwyer@tcd.ie](mailto:dwodwyer@tcd.ie). Remember safety is everyone's concern, if you see something that is unsafe please notify us.

## **Web Notes**

Some lecturers place notes or additional information on the web. Such material can be found at <http://www.tcd.ie/civileng/local/notes/index.php> in the lecturers' subdirectories.

## **Key Dates: 2015-2016**

### **Teaching Terms**

#### **First Semester**

Monday 28 September 2015 – Friday 18 December 2015

Study Week: 9 – 13 November 2015

#### **Second Semester**

Monday 18 January 2016 – Friday 8 April 2016

Study Week: 29 February – 4 March 2016

## **Examination Dates**

Annual Examinations 2016: Monday 2 May to Friday 27 May 2016

Please check notice-boards for full Exam Timetables

Cal. Wk. Nos.	Dates 2015/16 (week beginning)	Outline Structure of Academic Year 2015/16	Notes
1	31-Aug-15	Supplemental Examinations	Statutory Term (Michaelmas) begins
2	07-Sep-15		
3	14-Sep-15		
4	21-Sep-15	Orientation Week/Freshers' Week	
5	28-Sep-15	Teaching Week 1	Michaelmas Lecture term begins
6	05-Oct-15	Teaching Week 2	
7	12-Oct-15	Teaching Week 3	
8	19-Oct-15	Teaching Week 4	
9	20-Oct-15	Teaching Week 5 (Monday, Public Holiday)	
10	02-Nov-15	Teaching Week 6	
11	09-Nov-15	Teaching Week 7 – Study Week	
12	16-Nov-15	Teaching Week 8	
13	23-Nov-15	Teaching Week 9	
14	30-Nov-15	Teaching Week 10	
15	07-Dec-15	Teaching Week 11	
16	14-Dec-15	Teaching Week 12	← Michaelmas term ends Friday 18 Dec 2015
17	21-Dec-15		
18	28-Dec-15	Christmas period (College closed 24 December 2015 to 3 January 2016, inclusive)	
19	04-Jan-16		
20	11-Jan-16	Foundation Scholarship Examinations	Note: it may be necessary to hold some exams in the preceding week
21	18-Jan-16	Teaching Week 1	Hilary Term begins
22	25-Jan-16	Teaching Week 2	
23	01-Feb-16	Teaching Week 3	
24	08-Feb-16	Teaching Week 4	
25	15-Feb-16	Teaching Week 5	
26	22-Feb-16	Teaching Week 6	
27	29-Feb-16	Teaching Week 7 – Study Week	
28	07-Mar-16	Teaching Week 8	
29	14-Mar-16	Teaching Week 9 (Thursday, Public Holiday)	
30	21-Mar-16	Teaching Week 10 (Friday, Good Friday)	
31	28-Mar-16	Teaching Week 11 (Monday, Easter Monday)	
32	04-Apr-16	Teaching Week 12	← Hilary Term ends Friday 8 April 2015
33	11-Apr-16	Revision Trinity Week (Monday, Trinity Monday)	Trinity Term begins
34	18-Apr-16	Revision	
35	25-Apr-16	Revision	
36	02-May-16	Annual Examinations 1 (Monday, Public Holiday)	Annual Examination period: Four weeks followed by five weeks for marking, examiners' meetings, publication of results, Courts of First Appeal and Academic Appeals
37	09-May-16	Annual Examinations 2	
38	16-May-16	Annual Examinations 3	
39	23-May-16	Annual Examinations 4	
40	30-May-16	Marking/Courts of Examiners/Results	
41	06-Jun-16	Marking/Courts of Examiners/Results (Monday, Public Holiday)	
42	13-Jun-16	Marking/Courts of Examiners/Results	
43	20-Jun-16	Marking/Courts of Examiners/Results/Courts of First Appeal	
44	27-Jun-16	Courts of First Appeal/Academic Appeals	← Statutory (Trinity) term ends Friday 1 July 2016
45 to 52	04 Jul 2016 – 22 Aug 2016	Postgraduate dissertations/theses/Research 1-9	Nine weeks between end of statutory (Trinity) term and commencement of statutory (Michaelmas) term. This period is also used for writing up Masters dissertations and research theses due for submission in September. ← Ends Friday 26 August 2016

## Academic Skills for Successful Learning

Skills4Study Campus has now been replaced by a Blackboard module called Academic Skills for Successful Learning designed by Student Development. This is available to all students from: <http://mymodule.tcd.ie/>

## Student Learning Development

Student Learning Development is here to help you develop and master the academic skills to succeed at Trinity. The supports available include:

- Free workshops throughout the year on a variety of topics for students from all departments.
- A Blackboard module featuring a range of resources, including podcasts and interactive workshops that provide academic support to students. Topics include:
  - o Time management
  - o Presentation skills (incl poster presentations)
  - o Procrastination and Concentration
  - o Effective study skills
  - o Writing skills
  - o Exam skills
- Individual consultations – meet with a learning advisor to discuss your study issues.
- For more information please visit <http://student-learning.tcd.ie>

## Other supports for learning in College include:

- The Maths Help Room, which provides informal help from Trinity students. It is located in the Maths Seminar Room, 2nd Floor, 18 Westland Row and is open on Monday-Friday, from 1-2pm
- The Programming Support Centre is available to all computer science and engineering students taking programming courses. See [www.scss.tcd.ie/misc/psc](http://www.scss.tcd.ie/misc/psc)
- Peer Learning is available in several of the modern language departments. It involves working with other students to get the most from your course to improve performance. E-mail us for further information: [student.learning@tcd.ie](mailto:student.learning@tcd.ie)

## Accessing the service:

Student Learning Development  
Trinity College Dublin  
3<sup>rd</sup> Floor, 7-9 South Leinster Street  
Dublin 2, Ireland  
Web: <http://student-learning.tcd.ie>  
Email: [student.learning@tcd.ie](mailto:student.learning@tcd.ie)  
Phone: 01 896 1407

## Contacting Academic Registry

**All enquiries should be directed through one of the four channels:**

- Log an enquiry via ASK AR on the my.tcd.ie portal
- Via email at [academic.registry@tcd.ie](mailto:academic.registry@tcd.ie)
- Via phone at extension 4500 [student helpline] or extension 4501 [staff]

## Student Health Service Information

The Clinical staff in the College Health Service are as follows:

Medical Director:	Dr. David McGrath
Assistant Medical Director/Psychiatrist:	Dr. Niamh Farrelly
Doctors:	Dr. Niamh Murphy Dr. Mary Sheridan Dr. Aisling Waters Dr. Colette Horgan
Physiotherapist:	Ms. Karita Cullen
Health Promotion Officer:	Ms. Martina Mullin

## Student 2 Student

S2S Peer Support is all about one student listening to another student and providing information and assistance. Peer Supporters are available for any student in the College and are there for anything you might want to talk through with them. You don't need to be in distress or crisis to talk to a Peer Supporter, but they can help with the larger problems as well as the smaller things. Our volunteers are highly trained, confidential and professional, but they're also fellow students who can offer some genuine empathy and a friendly ear.

If anything is on your mind and you'd like to share it with a good listener then a Peer Supporter would love to help. You can email us directly at [student2student@tcd.ie](mailto:student2student@tcd.ie) or request a meet-up with a Peer Supporter by calling 01 896 2438 or filling out an online form.

S2S website: <http://student2student.tcd.ie>

## Staff List

<b>Head of Department</b>	Prof. Brian Broderick	<a href="mailto:bbrodrck@tcd.ie">bbrodrck@tcd.ie</a>
<b>JS Coordinator</b>	Prof. Francesco Pilla	<a href="mailto:pillaf@tcd.ie">pillaf@tcd.ie</a>
<b>SS Coordinator</b>	Prof. Brian Caulfield	<a href="mailto:brian.caulfield@tcd.ie">brian.caulfield@tcd.ie</a>
<b>MAI Coordinator</b>	Prof. Bidisha Ghosh	<a href="mailto:bghosh@tcd.ie">bghosh@tcd.ie</a>
<b>Chief Technician</b>	Dr. Kevin Ryan	<a href="mailto:ryank8@tcd.ie">ryank8@tcd.ie</a>
<b>Office Staff</b>	Mr. Daniel Wearen	<a href="mailto:wearend@tcd.ie">wearend@tcd.ie</a>
	Ms. Mary Curley	<a href="mailto:curleyma@tcd.ie">curleyma@tcd.ie</a>

<b>Staff Member</b>	<b>Email Address</b>	<b>Office Location</b>
Mr. E Dunne	<a href="mailto:edunne@tcd.ie">edunne@tcd.ie</a>	Simon Perry Bldg
Prof. M Dyer	<a href="mailto:mark.dyer@tcd.ie">mark.dyer@tcd.ie</a>	16 Westland Row
Prof. B Ghosh	<a href="mailto:bghosh@tcd.ie">bghosh@tcd.ie</a>	Simon Perry Bldg
Prof. L Gill	<a href="mailto:gill@tcd.ie">gill@tcd.ie</a>	Museum Bldg
Mr. M Grimes	<a href="mailto:migrimes@tcd.ie">migrimes@tcd.ie</a>	Simon Perry Bldg
Mr. M Harris	<a href="mailto:mharris@tcd.ie">mharris@tcd.ie</a>	Simon Perry Bldg
Prof. N Harty	<a href="mailto:hartyn@tcd.ie">hartyn@tcd.ie</a>	Red Brick Bldg
Mr. P Keogh	<a href="mailto:keoghpc@tcd.ie">keoghpc@tcd.ie</a>	Museum Bldg
Mr. D Mc Auley	<a href="mailto:damcaley@tcd.ie">damcaley@tcd.ie</a>	Simon Perry Bldg
Prof. S Mc Cormack	<a href="mailto:sarah.mccormack@tcd.ie">sarah.mccormack@tcd.ie</a>	Simon Perry Bldg
Dr. G Mc Granaghan	<a href="mailto:gmcgrana@tcd.ie">gmcgrana@tcd.ie</a>	Simon Perry Bldg
Prof. A Mc Nabola	<a href="mailto:amcnabol@tcd.ie">amcnabol@tcd.ie</a>	Simon Perry Bldg
Prof. B Misstear	<a href="mailto:bmisster@tcd.ie">bmisster@tcd.ie</a>	Museum Bldg
Prof. A O'Connor	<a href="mailto:alan.oconnor@tcd.ie">alan.oconnor@tcd.ie</a>	Simon Perry Bldg
Prof. D O'Dwyer	<a href="mailto:dwodwyer@tcd.ie">dwodwyer@tcd.ie</a>	Museum Bldg
Prof. B O'Kelly	<a href="mailto:bokelly@mail.tcd.ie">bokelly@mail.tcd.ie</a>	Simon Perry Bldg
Prof. M O'Mahony	<a href="mailto:margaret.omahony@tcd.ie">margaret.omahony@tcd.ie</a>	Museum Bldg
Prof. T Orr	<a href="mailto:torr@tcd.ie">torr@tcd.ie</a>	Museum Bldg
Prof. S Pavia	<a href="mailto:pavias@tcd.ie">pavias@tcd.ie</a>	Simon Perry Bldg
Mr. P Veale	<a href="mailto:vealep@tcd.ie">vealep@tcd.ie</a>	Simon Perry Bldg
Prof. R West	<a href="mailto:rwest@tcd.ie">rwest@tcd.ie</a>	Simon Perry Bldg
Prof. L Xiao	<a href="mailto:liwen.xiao@tcd.ie">liwen.xiao@tcd.ie</a>	16 Westland Row

## Telephone Numbers

<b>Department Office</b>	896 1457
<b>Conference Room/Library</b>	896 1850
<b>Fax (Departmental Office)</b>	677 3072

The Civil Engineering Office is open Monday – Friday, from 9am to 5pm, and is closed for lunch from 1-2pm.