



The University of Sydney

School of Civil Engineering

Guide for New Students

2007

<http://www.civil.usyd.edu.au/>

Welcome

On behalf of all staff I extend a warm welcome to The University of Sydney and in particular the School of Civil Engineering.

You are now entering a new phase of your life. The education you will receive and the networks you will create will prove to be of utmost importance to your career. Our lecturers at The University of Sydney are world leaders in the field of educating young Australians and international students to achieve their goals and aims. We look forward to teaching you and working with you to acquire the skills necessary for you to excel as an engineer.

However, acquiring these skills is not a one way street. In electing to become a student of civil engineering, it is your responsibility to ensure you take full advantage of all teaching available, to turn up and be on time for lectures and to ensure assignments are submitted in timely fashion. By working together and sharing a team spirit, we will all stand proud at the end of the day when you enter The Great Hall to graduate and take your place as a civil engineer ready to go anywhere in the world.

I encourage you to participate in discussions during lectures, to interact with fellow students and staff and to engage in the social activities of the University. We welcome student discussions and use your feedback to improve our teaching. We also hold student-staff meetings and have a suggestion box on our website <http://www.civil.usyd.edu.au> to facilitate your feedback. On the social side, you can join the Sydney University Civil Engineering Society (SUCE) or one of the many sports clubs of the University. Particularly with the large class sizes of the flexible first year, these clubs are good avenues for meeting fellow students and creating networks. I hope you will take advantage of these opportunities.

Thank you for your confidence in choosing Civil Engineering at The University of Sydney.

Yours sincerely

KJR Rasmussen
Professor and Head of School

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FIRST YEAR CIVIL ENGINEERING

New students will have already realised that starting a degree course means learning more than the information given out in classes. Please read and keep the following notes as a guide to some of the people, processes and places that you will encounter in your studies.

Organisation

The contents of the course for the degree in any branch of engineering is mainly the responsibility of a school. This means that the School of Civil Engineering looks after the course leading to the degree of Bachelor of Engineering in Civil Engineering and contributes about three-quarters of the teaching effort over the four years. The remainder of the teaching is carried out by the other schools within the Faculty of Engineering and Information Technologies - Chemical; Electrical and Information; Aerospace, Mechanical & Mechatronic; and Information Technology; and schools from the Faculty of Science, all within the first two years. The engineering proportion in the double degree programmes is somewhat less. The current Head of School of Civil Engineering is Professor KJR Rasmussen.

The five schools in this University together form the Faculty of Engineering and Information Technologies which is responsible for common rules across all Engineering, the processing and endorsing of examination results and matters such as enrolments.

There are 17 faculties in the University and this faculty has strong links with the Faculty of Science and the Faculty of Architecture together with the other faculties involved in the double degrees: Economics, Arts and Law.

Offices

The accompanying plan on the back page gives the locations of some buildings that you may not yet have encountered.

The University's Student Centre is in the bottom level of the Carslaw Building, immediately north of the City Road footbridge. Typical transactions here include the purchase of **Faculty Handbooks**, reporting **lost student cards**, and advice on **transport passes**.

The Engineering Faculty Office has its shopfront facing the ground level walkway through the Link Building. You may obtain **variation-of-enrolment forms** and **exemption request forms** from here. During the teaching semester, the Office is open from 11 am to 1 pm and 3 pm to 4 pm, Mondays to Fridays inclusive. Special Consideration Forms are initially submitted at the Faculty Office.

The School of Civil Engineering has its office in Room 418, on the second floor of the Civil Engineering Building, next to Shepherd Street. For specific enquiries relating to Civil Engineering course or enrolment or timetable matters, please contact the Undergraduate Student Administrative Advisor, in Room 410 (Monday to Friday, 9:00 to 5:00).

Advisors

The student advisor on administrative matters is Mrs Cynthia Papangelis (C.Papangelis@civil.usyd.edu.au) in Room 410 (Monday to Friday, 9:00 to 5:00), who should be your first point of call for questions of an administrative matter.

Academic enquiries by students are welcomed and these can best be directed to the First Year Advisors for Civil Engineering.

A/Prof David Airey [**2003 (and earlier) and 2007 (Surnames A-K)**]

(w) 9351 3342; (f) 9351 3343

Email: D.Airey@civil.usyd.edu.au

A/Prof Stuart G Reid [**2007 (Surnames L-Z)**]

(w) 9351 2121

Email: S.Reid@civil.usyd.edu.au

If your advisor is unavailable, you should contact Mrs C Papangelis or the Main Office in Room 418.

The teaching schools in the Faculty of Science also have advisory staff who deal with matters related to their specific subjects. The First Year Office of Mathematics is on Level 5 (Room 520) of the Carslaw Building. The Physics First Year Office is in Room 202 of the Physics Building and the office of the Director of First Year Studies in Chemistry is in Room 223 of the Chemistry Building.

For many problems regarding study conditions and personal difficulties, the University's Counselling Service is a useful contact: telephone (02) 9351 2228; fax: (02) 9351 7055. Professor Rasmussen or any other member of staff you are comfortable confiding in are also willing to help you in this area.

Facilities for improving learning and language skills needed for academic study are offered by the Learning Centre on Level 7 of the Education Building next to the Manning Building, (02) 9351 3853.

Civil Engineering Foundation

The Civil Engineering Foundation has the aim of bringing together members of the civil engineering industry to make available their practicing advice towards education of civil engineers, to provide funds beyond those from Government sources for the assistance in postgraduate study, and to facilitate communication between industry and the School in research and technical services.

The Foundation is involved in many activities which assist undergraduate students:

- Foundation member companies are involved in some of the teaching of the practical and theoretical issues of engineering
- Many of our students complete their work experience, and find employment with member companies.
- Several foundation member companies provide student scholarships.
- The Civil Engineering Foundation is involved in organising key functions such as the careers information sessions, and the annual research Conversazione. The Foundation also promotes seminars and short courses for industry.

Details on the Civil Engineering Foundation and the list of member companies are available at <http://www.civil.usyd.edu.au/foundation/>.

Careers Advice

The University Careers Centre, <http://www.careers.usyd.edu.au>, works together with School of Civil Engineering and The Civil Engineering Foundation to provide career advice for students.

The Careers Centre provides many services such as

- Job Alert Weekly Newsletter
- Graduate Recruitment Programs
- Career Workshops
- 24 Hour CV Checking Service

The School of Civil Engineering also passes on job and work experience vacancy information to students on notice-boards, email and via the school website.

Notice Boards

The primary method of posting notices to students is via the electronic bulletin board on our web site, <http://www.civil.usyd.edu.au>.

There is a notice board for First Year ('Junior Courses') and Second Year ('Intermediate Courses') in the passageway of the CE Building, Level 3.

Third Year ('Senior Courses'), Fourth Year ('Senior Advanced Courses') and Postgraduate notice boards are located on Level 3 of the CE Building.

Faculty Handbook

Essential information about courses can be found in the Faculty of Engineering Handbook. The Handbook may be found on the University's website at <http://www.usyd.edu.au/handbooks/> or a hardcopy can be purchased from the Student Centre or Engineering Faculty Office. The Handbook has details of the units of study (subjects) in which you are enrolled together with the titles of useful books and references. It also includes important information on the procedures for discontinuation and possible fee liability, together with the interpretation and consequences of examination results.

Some Science schools such as Mathematics, Chemistry and Physics also have their own first year booklets with more details of their subjects. These are available from the Engineering Faculty Office or electronically from the relevant school websites. There is also a second year Mathematics booklet.

University Policy

The University has many rules and policies that apply during your candidature. The most relevant rules that apply to engineering students are given in the Engineering Faculty Handbook mentioned above and available at <http://www.usyd.edu.au/handbooks/>.

A database of all university policies is available at <http://www.usyd.edu.au/policy>.

Books

The main place to buy text and reference books is the University Cooperative Bookshop in the building between the swimming pool and the Chemical Engineering Building. Lifetime membership of the Cooperative for a one-off payment of \$20 is a bargain, quickly recouped by the 10% discounts offered on book purchases by members. Textbooks should be bought after the commencement of lectures, on the advice of course lecturers.

The exceptions to the previous statement are the laboratory manuals that are published by Science schools; these manuals are needed from the beginning of the laboratory program.

Later courses may require the use of Australian Standards, and it is essential that students obtain their own personal copy on the recommendation of the course lecturer.

Enrolment Confirmation

Early in the first semester, you will receive written notification of the courses in which you are enrolled. **CHECK THIS IMMEDIATELY AND THOROUGHLY** to make sure that it agrees with your intended enrolment. If there are discrepancies, report them to the Engineering Faculty Office. Keep a copy of the enrolment confirmation document for future reference.

Classes begin on Monday 5th March for Semester 1. You **must complete your enrolment changes for Semester 1 subjects by Friday 16th March**. You can **drop courses up to 31st March**. You **may discontinue courses without**

failure (DNF) until 27th April, but you will incur a HECS liability after 31st March.

Classes begin on Monday 23rd July for Semester 2. You **must complete your enrolment changes for Semester 2 subjects by Friday 3rd August.** If you have made changes in your enrolment, a second enrolment statement will be sent to you. This should also be checked carefully, since it is your responsibility to ensure correct enrolment.

For Semester 2 subjects, you may not add new subjects after week 2 of Semester. You **may discontinue subjects without failure (DNF) until Friday 7th September, but you will incur a HECS liability after 31st August.**

These enrolment changes can be over the web on MyUni <http://myuni.usyd.edu.au/> or, if this is not possible, with a variation of enrolment form submitted to Cynthia Papangelis in Room 410 (Monday to Friday, 9:00 to 5:00).

Safety

The University pays serious attention to government safety regulations. Students must also play their part in ensuring safe working conditions.

A rule for working in Laboratories is that proper shoes must be worn. Thongs are totally inadequate and unacceptable. An even better approach is to buy a proper pair of industrial safety shoes with reinforced toecaps. These cost less than an average pair of normal shoes and last well beyond a university course. (Possible suppliers: Hylands, Rozelle; Work Warehouse, Rydalmere; Blackwoods, Smithfield and Brookvale; Federal Products, St Peters, etc.). Some Science laboratories, such as Chemistry, require eye protector glasses to be worn (obtainable from the Wentworth Building).

In the later years of the Civil Engineering course, there will be visits to construction sites. It is useful to obtain one's own safety hard hat, rather than having to rely on borrowing one.

Calculating WAM and Honours Ranking

Although it is very early in your academic career, it is never too early to think about excelling. Your results in first year (and all other years) will have an

effect on your “weighted average mark” (WAM) and the possible awarding of honours at graduation.

The Honours ranking is decided by calculating an overall weighted average mark, or “GWAM” using the following formula:

$$\text{GWAM} = \text{Sum (M x C x Y)} / \text{Sum (C x Y)}$$

Where M= mark obtained (out of a 100) in a given unit of study (UoS)
C = credit point value of the UoS
Y = nominal year of the unit of study (*ie* Y = 1 for a first-year UoS; Y = 2 for a second-year UoS, etc). This weighting means that later years’ results count more towards your GWAM than early years’ results.

The summations are performed over all units of study that are taken towards the engineering degree. Students should note that failures are also included in the calculation process. With respect to **combined degree students**, the Faculty policy is that all the units of study that count towards either the Engineering degree or the second degree are adopted in the GWAM calculation.

The various grades of Honours are awarded as follows:

First Class Honours and University Medal	$\text{GWAM} \geq 85\%$
First Class Honours	$75\% \leq \text{GWAM} < 85\%$
Second Class Honours Division 1	$70\% \leq \text{GWAM} < 75\%$
Second Class Honours Division 2	$65\% \leq \text{GWAM} < 70\%$
Pass	$\text{GWAM} < 65\%$

Examinations

For the examinations in June and November, the room locations and seat numbers are displayed in the lower level of the Carlaw Building, outside the Student Centre Office, during the week preceding the examinations. Exam seat numbers are also available electronically via MyUni (The University Intranet – see below for more details – <http://myuni.usyd.edu.au/>). Be sure to write down accurately your seat number and the location of each examination. Wise students look for the location of unfamiliar rooms some time before the day of each examination.

Draft examination timetables are published several weeks before the June and November examination periods. They are displayed on various notice boards

throughout the University including the one on Level 4 of the Civil Engineering Building and at the Student Centre, as well on the university website. Please check for problems such as time clashes and report any difficulties to the Student Centre.

Check the final examination timetable personally to confirm dates, times and locations. Large classes are often split and located in different rooms for examination purposes. The final timetables are available on the University's web site: <http://www.usyd.edu.au> (Go to "Current Students" then "Examination Information").

Individual copies of the final edition of the examination timetable become available about two weeks before the examination start. They can be obtained from the Faculty Office or the Student Centre. **YOU MUST READ THE RULES REGARDING EXAMINATIONS AS STATED IN THE FIRST FIVE PAGES.**

Official results are available only after the Board of Examiner meetings held in July and December. Your results will be sent to you via post soon after these meetings, and are also available on the Internet via *MyUni*.

Change of Address

It is important to promptly inform the Student Centre of any changes to your semester or vacation address or your name to allow results and other correspondence to reach you. Please be consistent in the form of your name that you use in order to avoid administrative difficulties including possible loss of marks.

Failure to notify the University of any change in your contact address(es) can be very much to your disadvantage on those occasions where we need to get in touch with you urgently. Please note that this also applies to your email address.

It should soon be possible to change your address on the internet via *MyUni*.

Special Consideration

What is "Special Consideration"? Students may suffer from illnesses, hardships or conditions that can cause difficulty with study or attendance at classes or reduce performance in examinations. The University has set up a process for

taking these circumstances into account when examination results are being considered.

Your claim for special consideration must be made as promptly as possible and within seven calendar days after the misfortune. In the case of written examinations, this would be immediately after the examination(s) in question.

Special Consideration Forms may be obtained from the Student Centre or the Faculty Office or our web site, <http://www.civil.usyd.edu.au/current/undergraduate/special.shtml>. The completed forms should be returned to the Faculty Office for stamp and a photocopy should be returned to each relevant teaching school office (eg Civil Engineering, Mathematics, Electrical Engineering, etc). If you have doubts, check with the Civil School Office (Room 418).

You should attach all relevant documents such as medical certificates and evidence of hardship. Special Consideration Forms for medical reasons must include a medical certificate that covers the dates concerned ***and details the effect of the medical condition on your performance.***

If you have been in an accident, have been admitted to hospital or had to leave the country suddenly, please arrange for a relative or friend to call or fax the Head of School. The contact numbers here are: phone 9351 2136 or fax 9351 3343. A letter confirming telephone information should be sent to:

The Head
School of Civil Engineering
University of Sydney
SYDNEY NSW 2006

The Form should then be submitted within seven calendar days of the incident.

You should not assume that submission of a Special Consideration Form will cause concessions to be automatically granted. The Faculty has resolved that concessions, which may include supplementary examinations, will only be granted if the student has performed satisfactorily in all other components of the relevant course of study. Concessions are normally given on the basis of medical or hardship grounds, on the recommendation of a Board of Examiners. Supplementary examinations may be awarded to students in their first year of attendance if they have failed an examination but have an overall satisfactory level of performance in the semester's work.

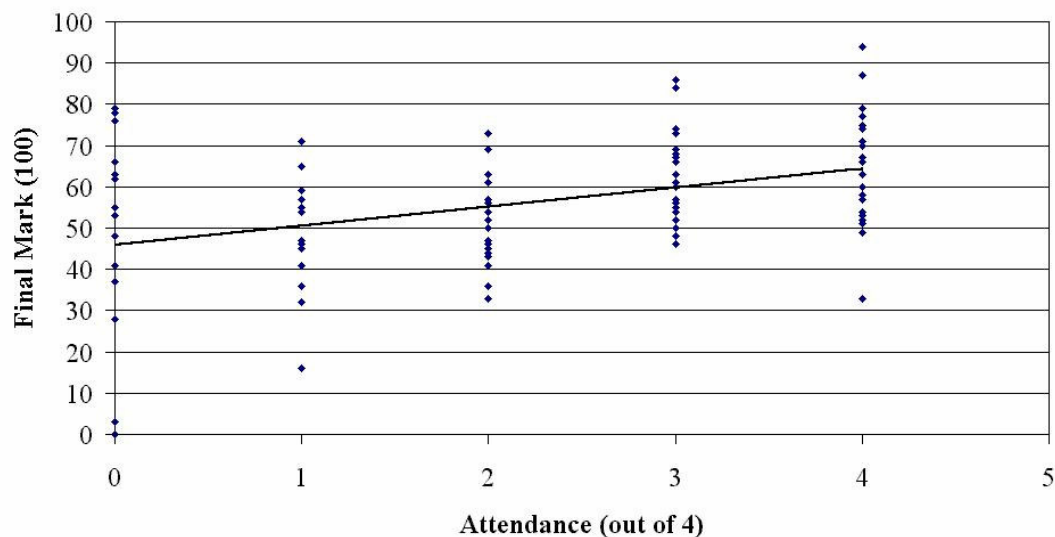
Attendance

If you are unable to attend a class, you should make every effort as soon as possible to bring yourself up to date with the material covered. This could involve early consultation with the class lecturer or tutor and cooperation with your classmates in obtaining copies of lecture notes or handout material. The university has rules that allow for the exclusion of students with poor attendance records. It should also be noted that poor attendance might make it difficult to comply with the requirements for Special Consideration at examination time.

Attendance at tutorial and laboratory sessions is an essential component of the course, since the material covered is related to that given in lectures. You should bring lecture notes to tutorial sessions.

We cannot stress strongly enough that regular attendance is a very important factor affecting your performance. It is important that you get into the practice of regularly attending all classes. You will find below a comparison of marks in the 2nd year Structural Mechanics course compared with lecture attendance. The roll was taken in four randomly chosen lectures and tutorials. While there is a

2002 Structural Mechanics



scatter, there is a clear trend between overall performance and attendance rates.

Academic Honesty

Academic honesty is a core value of The University of Sydney. The University is committed to the basic academic right that students receive due credit for work submitted for assessment. Integral to this is the notion that it is clearly unfair for students to submit work for assessment that dishonestly represents the work of others as their own. Such activity represents a form of fraud. The University has a responsibility to the community in general, and the engineering profession in particular, that graduating students have adequately displayed competency in the required areas.

Practices which are considered dishonest include:

- Copying some or all of another student's assignment without acknowledgement
- Copying from textbooks or other copyrighted material without acknowledgement (trying to pass off other peoples' ideas as your own)
- Recycling reports from students from earlier years
- Fabrication of data
- Engaging another person to complete an assessment or examination
- Communicating with other students during an examination
- Bringing forbidden material into an examination
- Attempting to read another student's work during an examination
- Knowingly assisting another student in an act of academic dishonesty

Depending on the nature of the dishonest behaviour penalties may vary from counseling and a note on your record, through to failure of a Unit of Study, and ultimately to exclusion from the University.

In Engineering it is common for students to work in groups to solve problems. This is perfectly acceptable and we encourage you to work together to help you understand course content. Unfortunately, this approach often leads to students submitting identical assignments, either in whole or in part, which is not acceptable. Any written assignment should be only your own work unless the course lecturer has informed you otherwise. In most circumstances, it is acceptable to discuss assignments with other students, compare completed assignments, methods and answers, or ask another student how to do a particular problem.

Written assignments and tutorial questions are designed to help your learning of important concepts. It is important to master the concepts in the early year courses as these form the basis for most of the more advanced engineering courses in later years. If you attempt to learn by following other student's

assignments you will struggle with the course and with examinations. It is highly recommended that you never prepare/write your own assignments with the assignment of another student in front of you.

You should never let someone take your assignment away from you, or let them copy from you as this can be penalised as dishonest behaviour. Experience also suggests that you should be wary of letting another student submit an assignment on your behalf.

Many students are tempted to copy someone else's work due to either not fully understanding the concepts or because of other demands on their time. This is unacceptable. Staff in the School of Civil Engineering will make every effort to assist students understanding the topics, and to ensure that the workload is reasonable.

There may be more specific instructions concerning academic honesty applicable to each unit of study in which you enrol. If ever you are in doubt about acceptable or unacceptable practices, you should consult with the relevant staff member. The School web page contains details and links to help students in issues related to academic honesty - <http://www.civil.usyd.edu.au/current/undergraduate/honesty.shtml>.

Student/Staff Liaison Committee

The Student Staff Liaison Committee (SSLC) provides a relatively informal means for communication between staff and students about the quality of teaching and facilities within the School of Civil Engineering. The function of the SSLC is to:

- provide an outlet for the expression of students' views or concerns about the course or educational facilities;
- establish a platform on which feedback on these concerns can be provided, and on which proposals for improvement can be discussed;
- provide a mechanism for discussion about individual units with members of staff not involved in that unit;
- assist with representative assessment of teaching quality for each unit and across the course as a whole;
- provide student input to School policy decisions; and
- actively promote discussion between staff and students over a range of issues.

Issues discussed by the committee will be conveyed by the Head of School to other members of staff where appropriate.

Students should always feel welcome to make any feedback or give any comments about any aspect of their University experience at any stage. It is acknowledged that some students may feel uneasy discussing some topics with a member of staff, and perhaps their year student representative can approach staff on their behalf. More details about this committee can be found at: <http://www.civil.usyd.edu.au/current/undergraduate/sslc.shtml>. Alternatively, you can send your feedback to the Head of the School and Associate Professor David Airey using the suggestions box on the School's web site <http://www.civil.usyd.edu.au/current/undergraduate/feedback.shtml>. You may choose to remain anonymous in submitting your feedback.

Sydney University Civil Engineers Society (SUCE)

Sydney University Civil Engineers, SUCE, is the undergraduate social society that operates within the School of Civil engineering. It is run by fellow students, aiming to improve the lifestyle and experience of your degree. SUCE run regular BBQs and pub-crawls, whilst also providing free tea and coffee to members in the Student Common room (Room 338).

You are encouraged to participate. Membership is just \$10 for life and entitles you to reduced prices at events, plus free tea and coffee for the next four years.

SUCE also need committee members from each year group, including first year. So if that interests you, email suce@civil.usyd.edu.au or ask at one of the first BBQs of the year.

Engineers Australia

The engineering profession in this country has an organisation that is responsible for the spread of knowledge and for recognising the levels of achievement and expertise of its members. The organisation is Engineers Australia, the Sydney Division office of which is located at Chatswood (Tel. 9410 5600). The Division's web address is <http://www.engineersaustralia.org.au>.

Most engineers proceed through their training to become full or 'corporate' members of the Institution. The term "Chartered Professional Engineer" is used

to mark this level and this is usually attained after a few years of suitable engineering experience following graduation from university.

Before this important landmark in an engineering career, the Institution does have two earlier grades of membership, namely those of Student and Graduate which entitle the respective members to put StudIEAust and GradIEAust after their names. Obvious advantages come from recognition of student membership by prospective employers, either long-term or for practical experience. There is also an active Young Engineers Sydney (YES) programme based on Sydney Division of the Institution, involving students and recent graduates. Our students often do well in the public speaking sections of the YES activities. Young Engineers information is on www.youngengineers.com.au.

The Institution is currently offering free membership to students until graduation. A good time to join as a student member would be at the beginning of second year. Application forms are kept in the Faculty Office.

Library

The Engineering Library is in the PNR Building. Early acquaintance with the online catalogue is recommended. Keyword searching is very convenient, as are subject, author, title and other ways of searching. The library computers can also be used for database and Internet searching, remember you need your library borrower number for access.

The University Library's web pages are at www.library.usyd.edu.au; from there you can access the online catalogue and a huge range of databases and other electronic resources. Make a point about finding out how you access these, on or off campus, and what to use them for. The major ones are Compendex, Factiva and Web of Science. You will also find a number of Internet subject guides for engineering there.

The library holds copies of previous examination papers for most units of study. Exams from 1997 onwards are available electronically at <http://www.library.usyd.edu.au/exams/>. Many course readings are also available electronically through E-reserve, via the online catalogue.

In order to use the photocopiers and printers in any of the University's libraries, you will need a photocopy card. Use an existing plastic card, or buy one for \$2 at Fisher Library and then load it with some money. Australian copyright laws

do permit a small amount of copying of books but excessive copying is an offence.

Most of the books you need will be in the Engineering Library, but there are times when you have to go to Madsen Library or Fisher Library for other books. To borrow books you need to present your student ID card. Most loans are for two weeks with a maximum of five renewals. Some books in high demand are also available from 'Reserve' for short loans: two hours, overnight or three days. The maximum loan length for books in the Fisher undergraduate collection is one week.

The University of Sydney library system has a wide range of books that can help you with study skills. Just search the online catalogue using keywords such as "writing skills", "learning skills" or similar.

In your first year, you should read:

"Communication for Engineering Students", by J.W. Davies and

"Finding Out – Information Literacy for the 21st Century" by J. Cheek et al

Multiple copies of these and many similar publications are held in the Engineering Library.

Computing Facilities, MyUni and Email

MyUni (<http://myuni.usyd.edu.au/>) is The University Intranet System (also known as USydNet) and can be found by clicking the MyUni icon from the university homepage or the links at the Civil Engineering web site. Details on MyUni, such as your username and password will be included in your "Confirmation of Enrolment" letter which you will receive after you enrol. MyUni provides students with an email account, and access to other important electronic tools, such as change of enrolment, exam seat numbers, exam results and access to some online teaching material through WebCT.

Students should check their university supplied email account regularly, as some lecturers will use email to communicate important information to students. *Alternatively, you can configure your university email account to automatically forward all email to another address of your choice.*

The University is continually moving to greater use of email for despatch of its mass mailings to students, rather than the postal service. **Some official correspondence, such as information to requests for special consideration may be sent to your university email account.** The use of students' email

accounts is free on campus or can be accessed by your existing internet provider if you don't have modem pool access.

The University provides computer access laboratories (<http://www.usyd.edu.au/su/is/labs/>), equipped with PCs with common applications such as Word, Excel, Powerpoint, and an internet browser (for internal University sites and up to 6 MB of external Internet downloads) free of charge to all students. Extra options, such as printing, extra disk space, modem access can be purchased at competitive rates. Computer access laboratories are located in the Faculty of Engineering Link Building (next to the Faculty Office), Carslaw, Fisher Library, and the Education Building. First and second year students are encouraged to use these computer access labs.

The School of Civil Engineering has its own well-equipped C.A Hawkins Computing Laboratory, which is in Room 365 on the first floor of the Civil Engineering Building. This laboratory is used exclusively by students enrolled in 3rd and 4th year units of study.

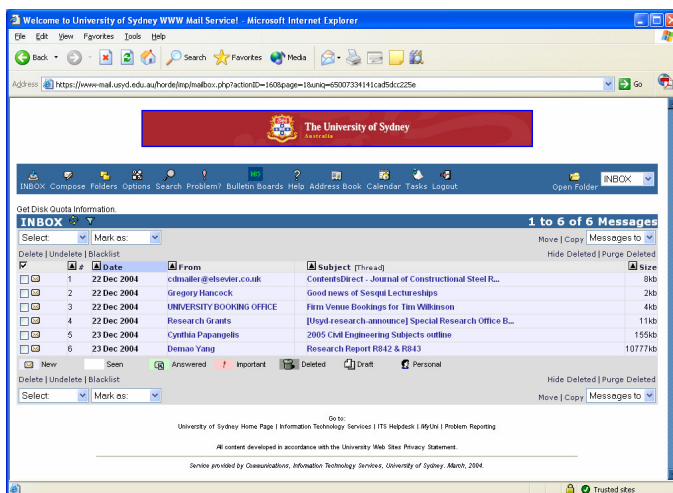
Civil Engineering Web Site – <http://www.civil.usyd.edu.au>

This page contains useful links and important notices of concern to all civil engineering students.

- Important messages
- Links to *USYDnet* to access your university email account and access to a large amount of other information
- Links to the homepages for various units of study



Click on the **Current students** section on the menu bar.



The University supplies all students with a free email account which can be accessed via <http://www-mail.usyd.edu.au>. Students should check their university supplied email account regularly, as many staff in the school may use email to communicate important information to you. Alternatively, you can configure your university email account to automatically forward all email to another address of your choice.

Teaching Staff

Head of School

Prof Kim Rasmussen [**2006 (A-K) Academic Advisor**]

(w) 9351 2136

K.Rasmussen@civil.usyd.edu.au

Steel structures – stability; structural testing; linear and non-linear analyses; thin-walled structures; stainless steel structures; aluminium structures.

Other teaching staff members

A/Prof David Airey [**2003 (and earlier) and 2007 (A-K) Academic Advisor**]

(w) 9351 3342

D.Airey@civil.usyd.edu.au

Soil mechanics; sophisticated laboratory soil testing; triaxial testing; model testing.

Dr Nigel Balaam

(w) 9351 2193

N.Balaam@civil.usyd.edu.au

Software development, Windows, Geotechnical engineering.

Dr Itai Einav [**2005 (L-Z) Academic Advisor**]

(w) 9351 2113

I.Einav@civil.usyd.edu.au

Engineering mechanics; soil mechanics; solid mechanics; plasticity; offshore geotechnics; computer analysis.

Dr Abbas El-Zein [**2005 (A-K) Academic Advisor**]

(w) 9351 7351

A.Elzein@civil.usyd.edu.au

Contaminant migration in soils, Thermo-mechanical consolidation for radioactive waste disposal, Modelling of health impacts of climate change, Environmental risk perception

Dr Tim Finnigan [**2006 (L-Z) Academic Advisor**]

(w) 9351 2126

T.Finnigan@civil.usyd.edu.au

Environmental fluid mechanics, ocean power conversion, and fresh water infrastructure.

Prof Gregory J Hancock (**Dean of The Faculty of Engineering**)

(w) 9351 4739

[*G.Hancock@civil.usyd.edu.au*](mailto:G.Hancock@civil.usyd.edu.au)

Steel structures; thin-walled metal structures and cold-formed steel structures; structural stability; structural dynamics; non-linear finite element analysis.

A/Prof Dong-Sheng Jeng

(w) 9351 2144

[*D.Jeng@civil.usyd.edu.au*](mailto:D.Jeng@civil.usyd.edu.au)

Ocean wave modeling, poro-elastic modeling, coastal engineering, marine geomechanics, coastal groundwater dynamics, artificial neural network.

Adjunct Professor Ian SF Jones

(w) 9351 4586, 9351 4585

[*otg@civil.usyd.edu.au*](mailto:otg@civil.usyd.edu.au)

Greenhouse gas mitigation; ocean wave predictions; satellite measurement technologies; engineering innovation; environmental loading on offshore structures; underwater robotics; underwater acoustic imaging.

Dr Li Liu [**PE&M Overall Advisor**]

(w) 9351 2123

[*L.Liu@civil.usyd.edu.au*](mailto:L.Liu@civil.usyd.edu.au)

Enterprise level Project Management, Organizational Structure and Control in Project-Based Organizations, Management Control, IS/IT Project Management, Project Portfolio and Program Management, Technology and Innovation.

Dr John P Papangelis

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Steel structures; thin-walled metal structures and cold-formed steel structures; structural stability; computer software.

Dr Gianluca Ranzi

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Steel-concrete composite structures, time dependent behaviour of concrete, finite element analysis

A/Prof Stuart G Reid [**2007 (L-Z) Academic Advisor**]

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Concrete structures – technology and design; structural reliability; risk analysis; earthquake resistant structures; loads on structures; glass strength and safety.

Professor John C Small [**2004 (L-Z) Academic Advisor**]

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Soil mechanics – settlement of foundations; rate of consolidation; slope stability; seepage and flow in soil; earth and rockfill dam design; finite element methods; excavation, raft foundations; piled rafts.

Dr Tim Wilkinson [**2004 (A-K) Academic Advisor**]

(w) 9351 5104

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Steel structures, cold-formed tubular structures, connections, welding, structural analysis, finite element analysis, teaching and learning for engineering information technology in engineering education.

Honorary Teaching Staff Members

Honorary A/Prof Andrew Abel

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Metallurgy; metal properties generally; materials technology; fatigue; fracture; plasticity of metals; welding; corrosion

Honorary A/Prof Peter Ansourian

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Structural stability; shell structures; computer analysis; thin-walled metal structures; storage bins and silos; structural analysis; steel and concrete composite bridges and buildings; steel structures

Mr Ian Bowie

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Transportation engineering.

Mr Noel Ings

(w) 9036 6384

[*N.Ings@civil.usyd.edu.au*](mailto:N.Ings@civil.usyd.edu.au)

Structures – structural stability; microcomputer analysis; thin-walled structures; structural analysis.

Honorary Prof Ali Jaafari

[*A.Jaafari@civil.usyd.edu.au*](mailto:A.Jaafari@civil.usyd.edu.au)

Project planning, structural and management; risk management; project appraisal and evaluation; quality management; management of large projects, management

education and development, management control planning and optimisation; project delivery audit and independent review.

Dr Richard Watkins

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R.Watkins@civil.usyd.edu.au

Fluids engineering; wind energy; water energy; wind tunnel testing; wind effects of and on buildings; fluid flows in pipes and channels.

Honorary A/Prof Robert Wheen

(w) 9351 2122

R.Wheen@civil.usyd.edu.au

Bridges; concrete structures; construction; major construction projects; prestressed and reinforced concrete structures; ingenuity competitions; invention; innovation and entrepreneurship; laboratory and field testing of structures.

Adjunct Teaching Staff Members

Mr Richard Weber

(w) 9036 6384

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Mr Ted Tooher

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Dr Michael Chaaya

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Mr Wayne Courtney

W.Courtney@econl.usyd.edu.au

Other useful contacts

The University provides a comprehensive range of support services for students. The entry portal for these services can be found at <http://www.usyd.edu.au/stuserv/>

Counselling service

The counselling Service provides a free, confidential service to assist students to overcome personal and university-related problems which may arise during the course of their studies. Located at:

Level 7, Education Building, A35

Tel: 9351 2228 Fax: 9351 7055 TTY: 9351 3412

Email: counsell@stuserv.usyd.edu.au

<http://www.usyd.edu.au/stuserv//counselling/>

Disability Services

Disability services is the principal point of contact and support for students with disabilities. Located at:

Level 7, Education Building, A35

Tel: 9351 7040 Fax: 9351 3320 TTY: 9351 3412

Email: disserv@stuserv.usyd.edu.au

<http://www.usyd.edu.au/stuserv//disability/>

Financial Assistance Office

The University has interest free loans funds to assist students who experience financial difficulties. Loans are available for essential living and study expenses to supplement other income and in cases of emergency. Located at:

Level 7, Education Building, A35

Tel: 9351 2416 Fax: 9351 7055 TTY: 9351 3412

Email: fao@stuserv.usyd.edu.au

http://www.usyd.edu.au/stuserv//financial_assistance_office/

International Student Services Unit (ISSU)

The ISSU provides counselling, pre-departure orientation and returning home programs for international students. Trips and activities programs are also available. Located at:

Ground Floor, Services Building, G12.
Corner of Abercrombie and Codrington Streets
Tel: 9351 4749 Fax: 9351 4013
Email: info@issu.usyd.edu.au
<http://www.usyd.edu.au/su/issu/>

Learning Centre (LC)

The Learning Centre provides a wide range of programs to assist students to develop the academic and language skills necessary for the acquisition and communication of knowledge and ideas in a university setting. Located at:

Level 7, Education Building, A35
Tel: 9351 3853 Fax: 9351 4865
Email: lc@stuserv.usyd.edu.au
http://www.usyd.edu.au/stuserv//learning_centre/

Mathematics Learning Centre

The Mathematics Learning Centre offers help to student who enter the University with insufficient preparation in mathematics. Located at:

Room 441, 4th floor, Carlaw Building, F07
Tel: 9351 4061 Fax: 9351 5797
Email: mlc@mail.usyd.edu.au
http://www.usyd.edu.au/stuserv//maths_learning_centre/

University Health Service

The University Health Service provides a fully experienced general practitioner service, and emergency medical care for staff and students. The Health Service bulk bills for the cost of consultations. Located at:

Level 3, Wentworth Building, G01
Tel: 9351 3484 Fax: 9351 4110
Or
Main Entrance, Holme Building, A09
Tel: 9351 4095 Fax: 9351 4338
<http://www.usyd.edu.au/stuserv/welfare/uhs.shtml>

The Wentworth Building also contains a pharmacy, dentist and optometrist.

Student Organisations

Student organisations are an important part of university life. Being involved in non-academic interests at university helps you to develop a network of friends and to broaden your outlook and skills.

The University of Sydney Union

The University of Sydney Union is an independent organisation providing benefits and services for students. Despite its name, it is not a trade union. The University of Sydney Union many services including: catering services, commercial services and shops, entertainment and activities, clubs and societies, discount movie and theatre tickets, child care, and much more.

<http://www.usydunion.com/>

Students Representative Council (SRC)

The SRC advocates for students on an individual and collective basis to the University Administration. It makes representations to government and non-government organisations in the wider community, using its resource base to research and prepare submissions. The various portfolio officers run activist campaigns, forums and rallies around a wide range of issues affecting students. SRC members hold positions on many committees within the University, enabling the student voice to be heard.

<http://www.src.usyd.edu.au/>

Sydney University Sport (SU Sport)

Sydney University Sport administers more than 40 different sport and recreation clubs, organises sporting and recreation events, and manages a wide range of facilities. Membership of Sydney University Sport entitles you to use the facilities such as the pool and gymnasium, participate in all sport and recreational activities, as well as become a member of any of the 42 registered clubs at members' rates.

<http://www.susport.com/>

Map

