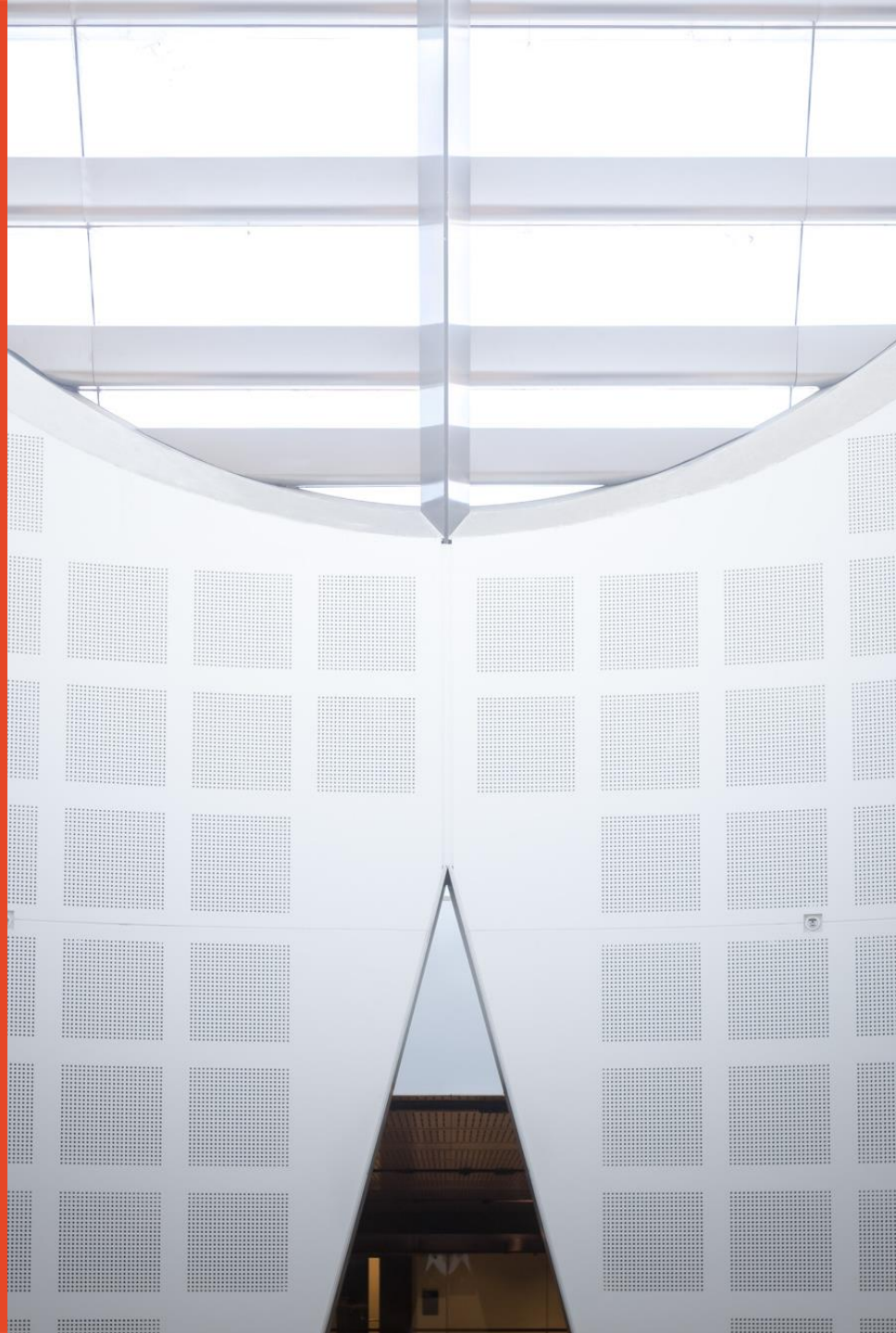
COMP5318: Machine Learning and Data Mining

Adminstrivia

Unit coordinator:
Nguyen Hoang Tran
School of Computer Science



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Agenda

- Unit arrangements
- Expectations
- Assessment
  - Unit details
  - Policies
- Workplace Health and Safety
- Assistance
- Advice

COMP5318: Places

- Lecture: every Monday, 6 to 8pm, in Eastern Avenue Auditorium
- Lab: depends on your timetable
  - Go to the lab you are scheduled for
  - If for some reason you miss it, you can attend a later lab session *if there is space and the tutor agrees*, but ask the tutor before taking a seat

- Do not miss class, except for illness, emergencies, etc
- Get help from staff if you feel you are falling behind

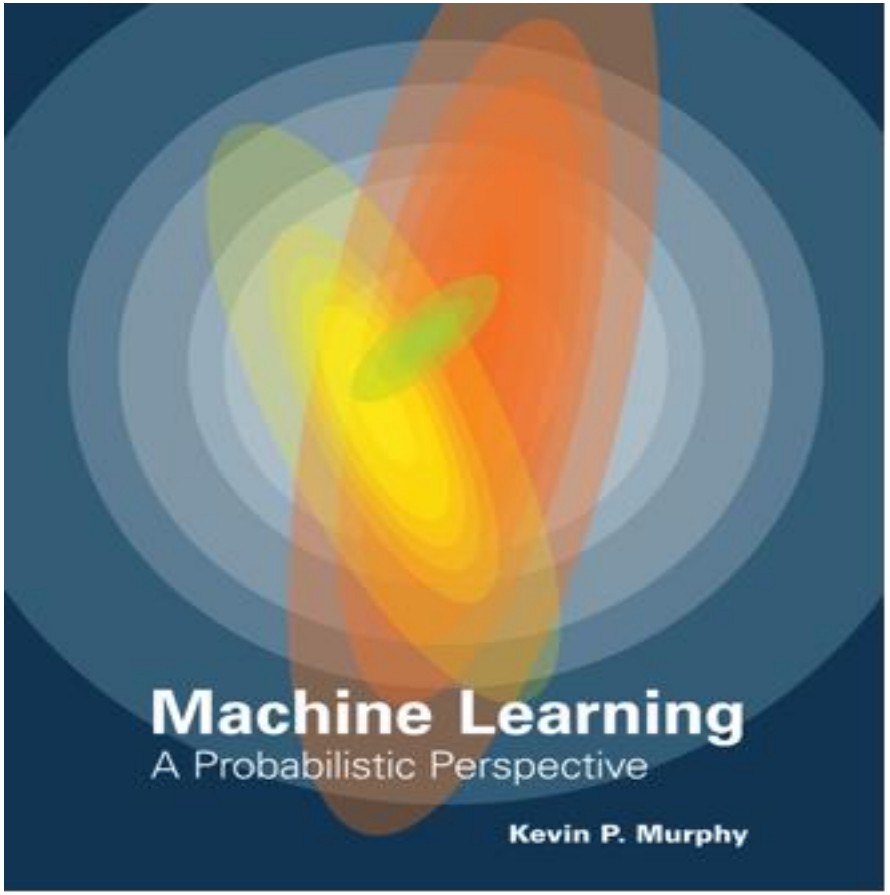
COMP5318: People

- Unit Coordinator and Lecturer:
  - Dr Nguyen Hoang Tran, room 428, J12
- Teaching Assistants:
  - Iwan Budiman & Canh Dinh
- Teaching Associate (Admin):
  - Niku Gorji
- Tutors:
  - Iwan Budiman (Monday 20:00 M20A SIT lab 114)
  - Canh Dinh (Monday 20:00 M20B SIT lab 115 + Tuesday 17:00 T17A SIT lab 130B)
  - Yixuan Zhang (Monday 20:00 M20C SIT lab 116)
  - Yang Lin (Monday 20:00 M20D SIT Lab 117 + Tuesday 17:00 T17B SIT lab 130A)
  - Zhiyi Wang (Monday 20:00 M20E SIT lab 118)
  - Shaojun Zhang (Monday 20:00 M20F SIT lab 130A)
  - Rui Dong (Monday 20:00 M20G SIT lab 130B)
  - Haoyu He (Monday 20:00 M20H SIT Lecture Theatre 123)
  - Fangzhou Shi (Tuesday 17:00 T17C SIT lab 116)
  - Fengxiang He (Tuesday 17:00 T17D SIT lab 117)
  - Dai Hoang Tran (Tuesday 17:00 T17E SIT lab 115)

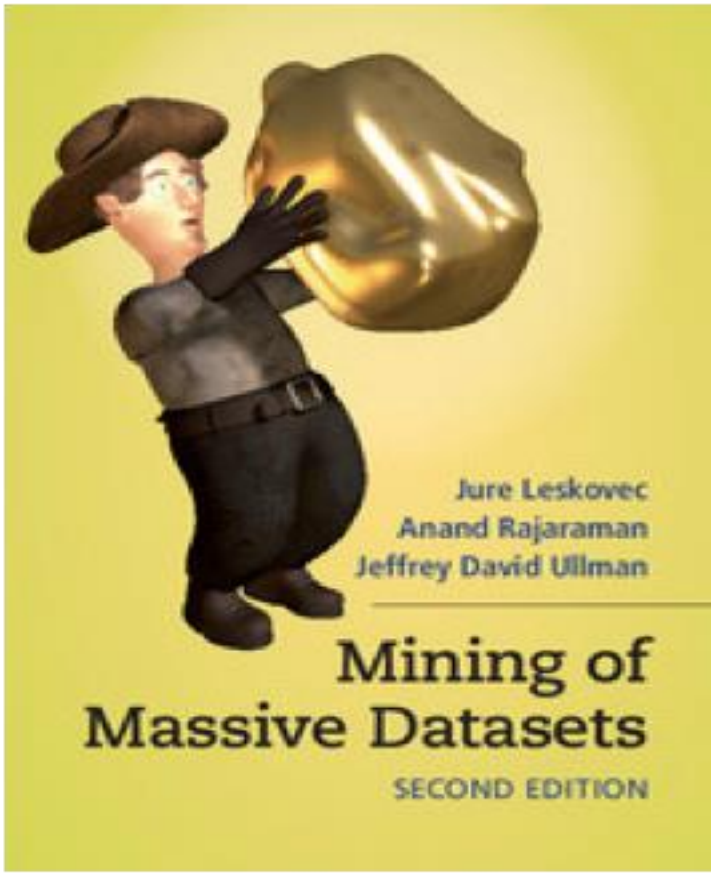
COMP5318: Resources

- eLearning
  - Login using Unikey and password
  - Link to CUSP
    - Official schedule, list of learning outcomes, etc
  - Copies of slides
  - Lab instructions
  - Assignment instructions
  - Lecture videos
    - We intend to record the lectures, but the technology is not reliable
  - *Submit official assignment work here*;
  - see your grades; etc
  - Discussion forum: on Piazza, link from eLearning site

Reference book



Textbook



Extra

Expectations

- Students attend scheduled classes, and devote an *extra* 6-9 hrs per week
  - doing assessments
  - preparing and reviewing for classes
  - revising and integrating the ideas
  - practice and self-assess
- Students are responsible learners
  - Participate in classes, constructively
    - Respect for one another (criticize ideas, not people)
    - Humility: none of us knows it all; each of us knows valuable things
  - Check eLearning site (Canvas and Piazza) at least once a week!
  - Notify academics whenever there are difficulties
  - Notify group partners honestly and promptly about difficulties

Self-test

- How much work will you be devoting to this unit, each week?
- Do you need to buy a book?
- Who should you see if difficulties arise?

COMP5318: Assessment

- Two Quiz
- Two Assignments
- Final Exam

- Note: coding will be required to run in the CS lab environment
  - if you work on a home machine, check it in the lab too!

COMP5318 Exam

- Worth 50% of the unit
- Covers all lectures
- School of Computer Science policy: you must get at least 40% of the marks available on the exam, in order to pass the unit

Special Consideration (University policy)

- If your performance on assessments is affected by illness or misadventure
- Follow proper bureaucratic procedures
  - Have professional practitioner sign special USyd form
  - Submit application for special consideration online, upload scans
  - Note you have only a quite short deadline for applying
  - http://sydney.edu.au/current_students/special_consideration/
- Also, notify coordinator by email *as soon as anything begins to go wrong*
- There is a similar process if you need special arrangements eg for religious observance, military service, representative sports

Late assessments in COMP5318

- Suppose you hand in work after the deadline:
- If you have not been granted special consideration or arrangements
  - A penalty of 20% of the available marks will be taken, per day (or part) late
- *Eg your work would have scored 60% and is 1 hour late*
  - *you get 40%*
- *Eg your work would have scored 70% and is 28 hours late*
  - *you get 30%*
- Warning: submission sites get very slow near deadlines
- Submit early; you can resubmit if there is time before the deadline

Academic Integrity (University policy)

- "The University of Sydney is unequivocally opposed to, and intolerant of, plagiarism and academic dishonesty.
  - Academic dishonesty means seeking to obtain or obtaining academic advantage for oneself or for others (including in the assessment or publication of work) by dishonest or unfair means.
  - Plagiarism means presenting another person's work as one's own work by presenting, copying or reproducing it without appropriate acknowledgement of the source." [from site below]
- http://sydney.edu.au/elearning/student/EI/index.shtml
- Submitted work is compared against other work (from students, the internet etc)
  - Turnitin for textual tasks (through eLearning), other systems for code
- Penalties for academic dishonesty or plagiarism can be severe
- Complete self-education AHEM1001

Self-test

- When is the first assessment work due?
- What do you do if you get sick during semester?
- What help can you use when answering assessments?
- How do you find out about assignment instructions?
- How do you submit your work?
- What is Turnitin?
- What language will you be coding in?

Academic Integrity Practice

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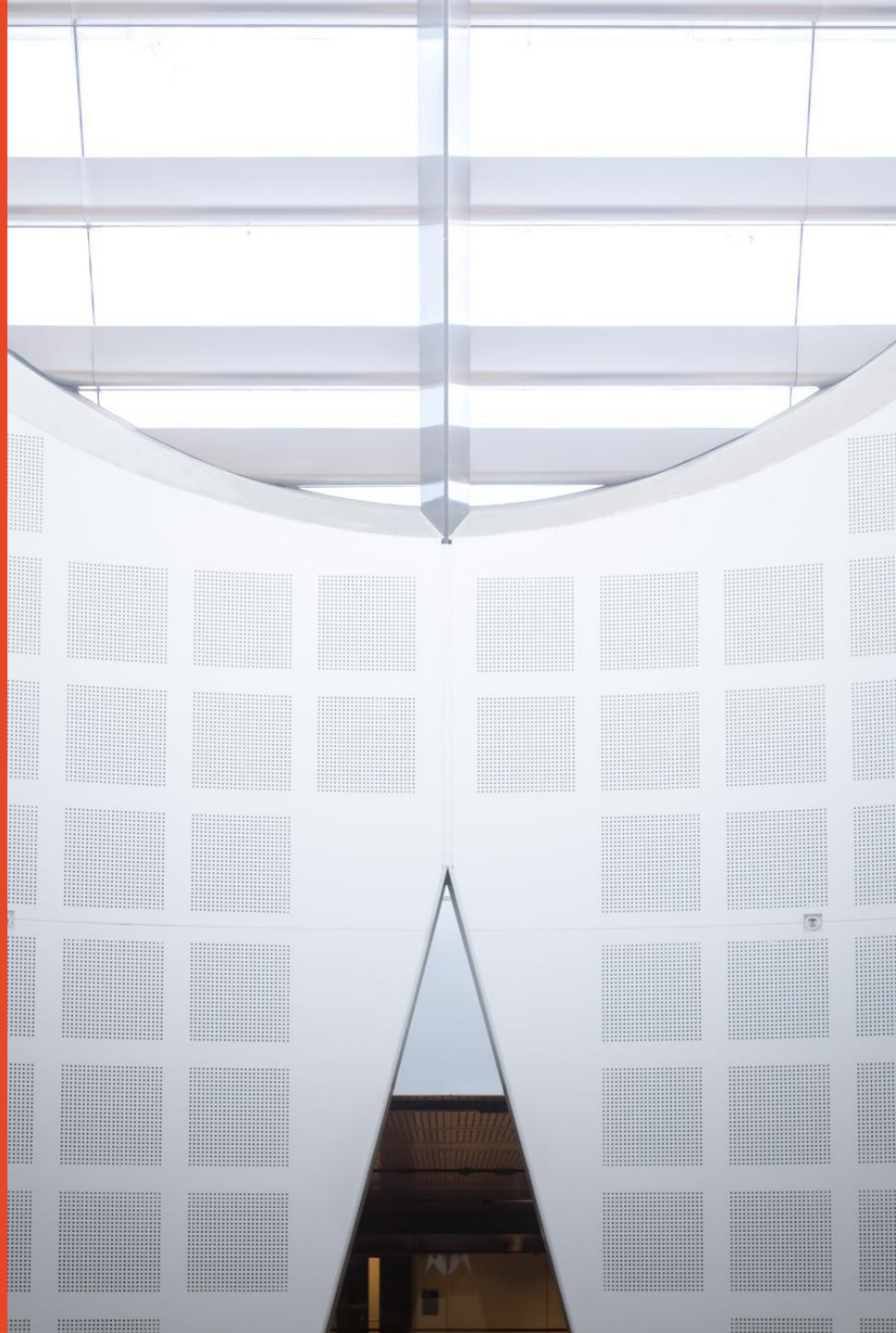

Different levels/types of Academic Integrity practice

- Source:
  - Different types of a source of help are accepted for different academic levels (Junior, Intermediate, Senior, Postgraduate)

- Nature of Help:
  - Different types of help are accepted for different types of assessment.

- Two slides explaining "Source" and "Nature" of help allowed
- You can adjust the chart to suite the academic integrity requirement for your assessments.

Example 1: Junior level programming UoS

Source of Help

Lecturer	Teaching Assistants / Tutors	Classmates	Private tutors	Online forums/ Online tutors	Students outside course/UoS	Hired coders Tutorial Company outside University	Relatives	Other

- Individual assessment
- A student needs to gain an understanding of fundamental knowledge/skills
- It is important to master the knowledge/skills themselves

Encouraged
Attribution required
Not acceptable
Ask Lecturer/Coordinator

Example 1: Junior level programming UoS

Types of Help

Understanding General Concepts	Explained using similar material (not assignment)	Sharing approach/concept to derive assignment solution	Designing code/solution	Implementing code/solution

- Individual assessment
- A student needs to gain an understanding of fundamental knowledge/skills
- It is important to master the knowledge/skills themselves
- Students are encourage to obtain help through relevant teaching material and practices but not directly on assessment materials

- Encouraged
- Attribution required
- Not acceptable
- Ask Lecturer/Coordinator

Example 2: Intermediate/Senior level specialist UoS

Source of Help

Lecturer	Teaching Assistants / Tutors	Classmates	Private tutors	Online forums/ Online tutors	Students outside course/UoS	Hired coders Tutorial Company outside University	Relatives	Other

- Individual assessment
- A student needs to gain an understanding of high level knowledge/skills
- A student needs to gain skills to find, evaluate and apply existing knowledge/solutions

- Encouraged
- Attribution required
- Not acceptable
- Ask Lecturer/Coordinator

Example 2: Intermediate/Senior level specialist UoS

Types of Help

Understanding General Concepts	Explained using similar material (not assignment)	Sharing approach/concept to derive assignment solution	Designing code/solution	Implementing code/solution

- Individual assessment
- A student needs to gain an understanding of fundamental knowledge/skills
- It is important to master the knowledge/skills themselves
- Students are encourage to obtain help through relevant teaching material and practices

- Encouraged
- Attribution required
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WHS Induction

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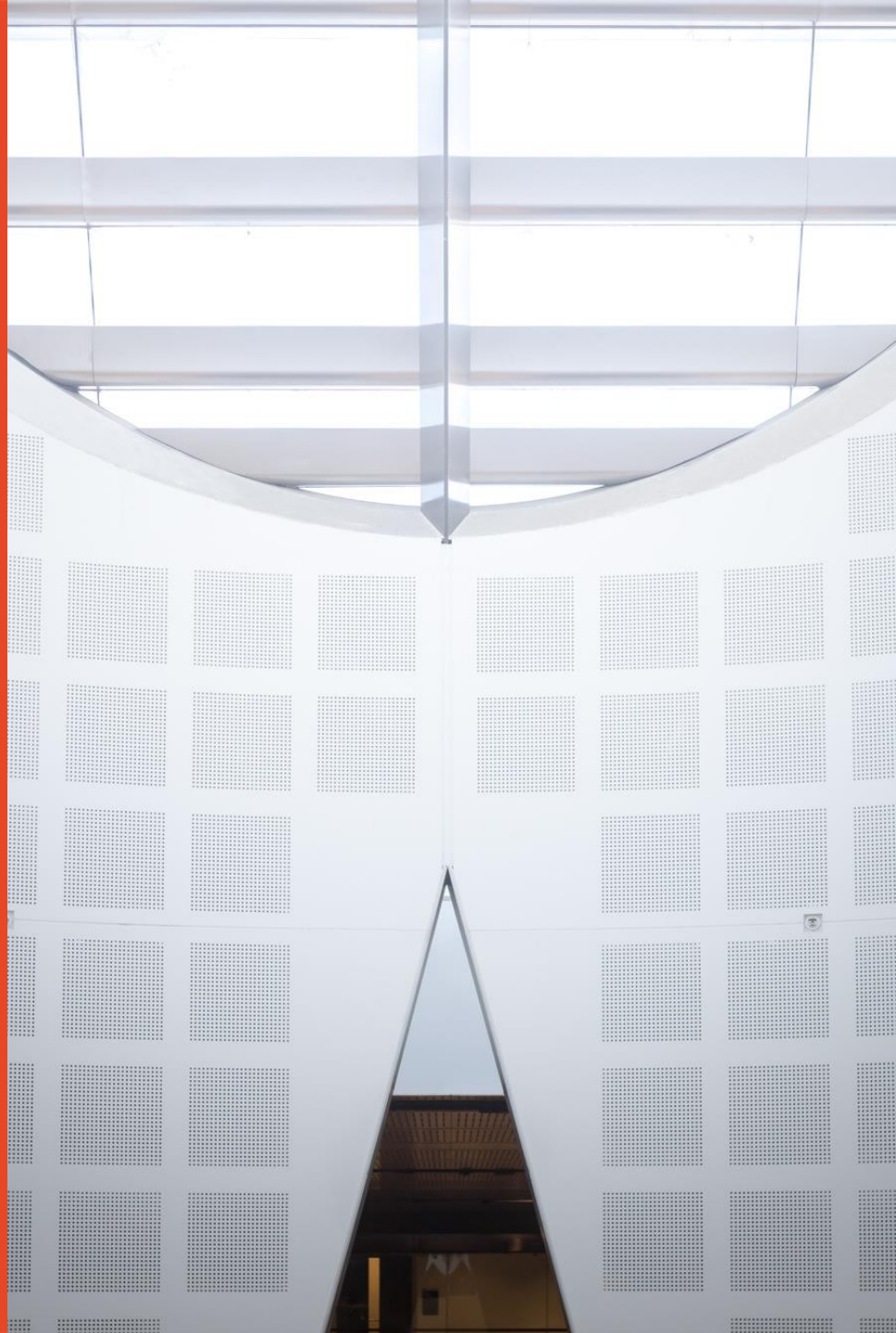


General Housekeeping – Use of Labs

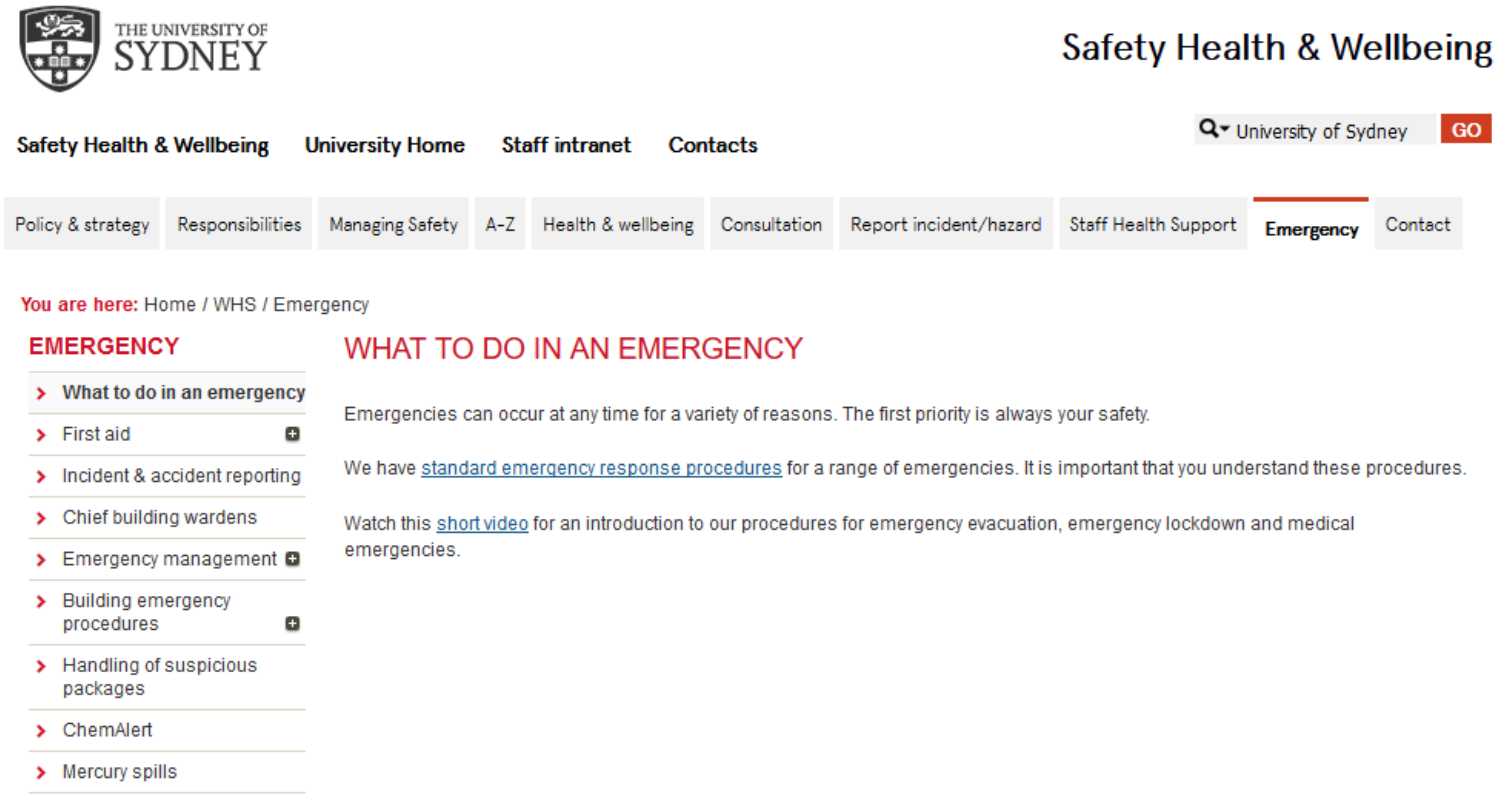
- Keep work area clean and orderly
- Remove trip hazards around desk area
- No food and drink near machines
- No smoking permitted within University buildings
- Do not unplug or move equipment without permission





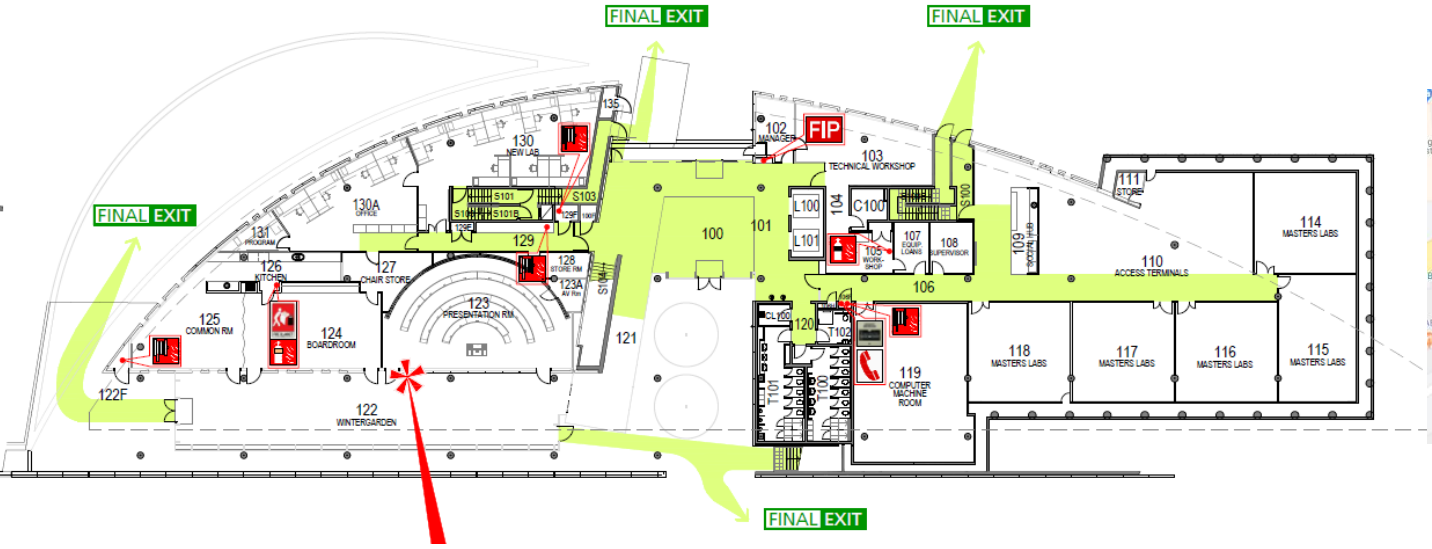
EMERGENCIES – Be prepared

www.sydney.edu.au/whs/emergency

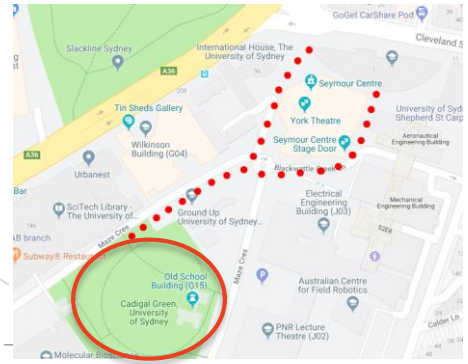


EMERGENCIES

WHERE IS YOUR CLOSEST SAFE EXIT ?



Assembly Area: Cadigal Green



EMERGENCIES

Evacuation Procedures

ALARMS

BEEP... BEEP... Prepare to evacuate

1. Check for any signs of immediate danger.
2. Shut Down equipment / processes.
3. Collect any nearby personal items.

WHOOP... WHOOP... Evacuate the building

1. Follow the EXIT exit signs.
2. Escort visitors & those who require assistance.
3. DO NOT use lifts.
4. Proceed to the assembly area.

EMERGENCY RESPONSE

1. Warn anyone in immediate danger.
2. Fight the fire or contain the emergency, if safe & trained to do so.

If necessary...

3. Close the door, if safe to do so.
4. Activate the "Break Glass" Alarm  or 
5. Evacuate via your closest safe exit. EXIT 
6. Report the emergency to 0-000 & 9351-3333

MEDICAL EMERGENCY

- If a person is seriously ill/injured:
  1. **call an ambulance 0-000**
  2. **notify the closest Nominated First Aid Officer**

     If unconscious– send for Automated External Defibrillator (AED)
     AED **locations**.

     NEAREST to CS Building (J12)
     - Electrical Engineering Building, L2 (ground) near lifts
     - Seymour Centre, left of box office
     - Carried by all Security Patrol vehicles

  3. **call Security -** 9351-3333
  4. **Facilitate the arrival of Ambulance Staff (via Security)**

Nearest Medical Facility
University Health Service in Level 3, Wentworth Building

First Aid kit – SIT Building (J12)
kitchen area adjacent to Lab 110

School of Computer Science Safety Contacts

CHIEF WARDEN
Greg Ryan
Level 1W 103
9351 4360
0411 406 322

FIRST AID OFFICERS

Julia Ashworth
Level 2E Reception
9351 3423

Will Calleja
Level 1W 103
9036 9706
0422 001 964

Katie Yang
Level 2E 237
9351 4918

Orally REPORT all INCIDENTS & HAZARDS to your SUPERVISOR

OR

Undergraduates: to Katie Yang 9351 4918

Coursework Postgraduates: to Cecille Faraizi 9351 6060

CS School Manager: Shari Lee 9351 4158

Assistance

- There are a wide range of support services available for students
- Please make contact, and get help
- You are not required to tell anyone else about this
- If you are willing to inform the unit coordinator, they may be able to work with other support to reduce the impact on this unit
  - eg provide advice on which tasks are most significant

DISABILITY SERVICES

Do you have a disability?

- You may not think of yourself as having a 'disability' but the definition under the **Disability Discrimination Act** is broad and includes temporary or chronic medical conditions, physical or sensory disabilities, psychological conditions and learning disabilities.
- The types of disabilities we see include:
- anxiety, arthritis, asthma, asperger's disorder, ADHD, bipolar disorder, broken bones, cancer, cerebral palsy, chronic fatigue syndrome, crohn's disease, cystic fibrosis, depression, diabetes, dyslexia, epilepsy, hearing impairment, learning disability, mobility impairment, multiple sclerosis, post traumatic stress, schizophrenia , vision impairment, and much more.
- Students needing assistance must register with Disability Services –
  - it is advisable to do this as early as possible.
- http://sydney.edu.au/study/academic-support/disability-support.html

Do you have a disability?

You may not think of yourself as having a ‘disability’ but the definition under the **Disability Discrimination Act (1992)** is broad and includes temporary or chronic medical conditions, physical or sensory disabilities, psychological conditions and learning disabilities.

The types of disabilities we see include:
Anxiety // Arthritis // Asthma // Autism // ADHD
Bipolar disorder // Broken bones // Cancer
Cerebral palsy // Chronic fatigue syndrome
Crohn’s disease // Cystic fibrosis // Depression
Diabetes // Dyslexia // Epilepsy // Hearing impairment // Learning disability // Mobility impairment // Multiple sclerosis // Post-traumatic stress // Schizophrenia // Vision impairment
and much more.

Students needing assistance must register with Disability Services. It is advisable to do this as early as possible. Please contact us or review our website to find out more.

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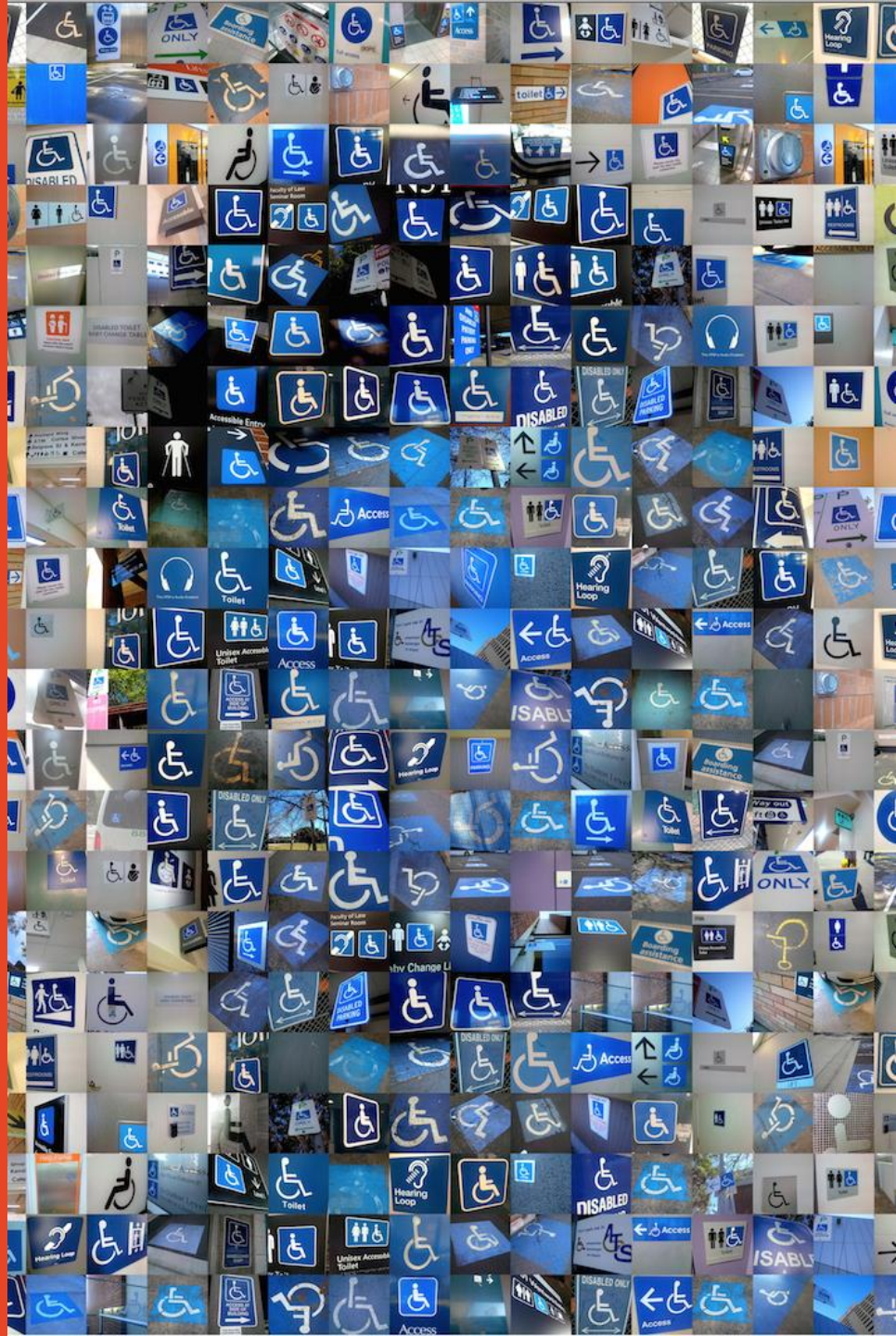
Disability Services Office
sydney.edu.au/disability
02-8627-8422



Other support

- Learning support
  - http://sydney.edu.au/study/academic-support/learning-support.html
- International students
  - http://sydney.edu.au/study/academic-support/support-for-international-students.html
- Aboriginal and Torres Strait Islanders
  - http://sydney.edu.au/study/academic-support/aboriginal-and-torres-strait-islander-support.html
- Student organization (can represent you in academic appeals etc)
  - http://srcusyd.net.au/ or http://www.supra.net.au/
- Please make contact, and get help
- You are not required to tell anyone else about this
- If you are willing to inform the unit coordinator, they may be able to work with other support to reduce the impact on this unit
  - eg provide advice on which tasks are most significant

Advice

- Metacognition
  - Pay attention to the learning outcomes in CUSP
  - Self-check that you are achieving each one
  - Think how each assessment task relates to these
- Time management
  - Watch the due dates
  - Start work early, submit early
- Networking and community-formation (Piazza)
  - Make friends and discuss ideas with them
  - Know your tutor, lecturer, coordinator
  - Keep them informed, especially if you fall behind
    - Don’t wait to get help
- Enjoy the learning!