COMP5347/COMP4347: Web Application Development
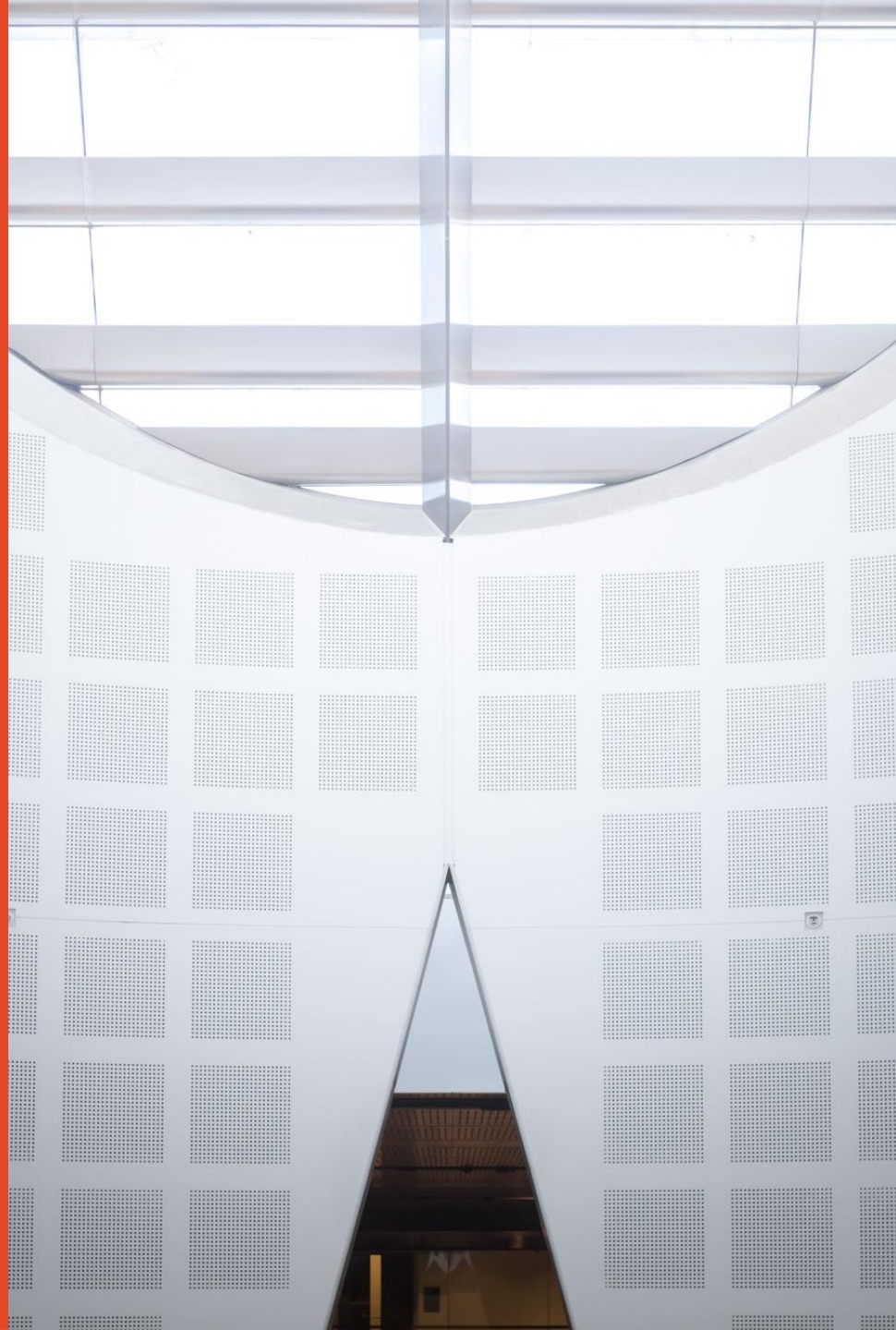
Adminstrivia

Dr. Basem Suleiman

School of Computer Science
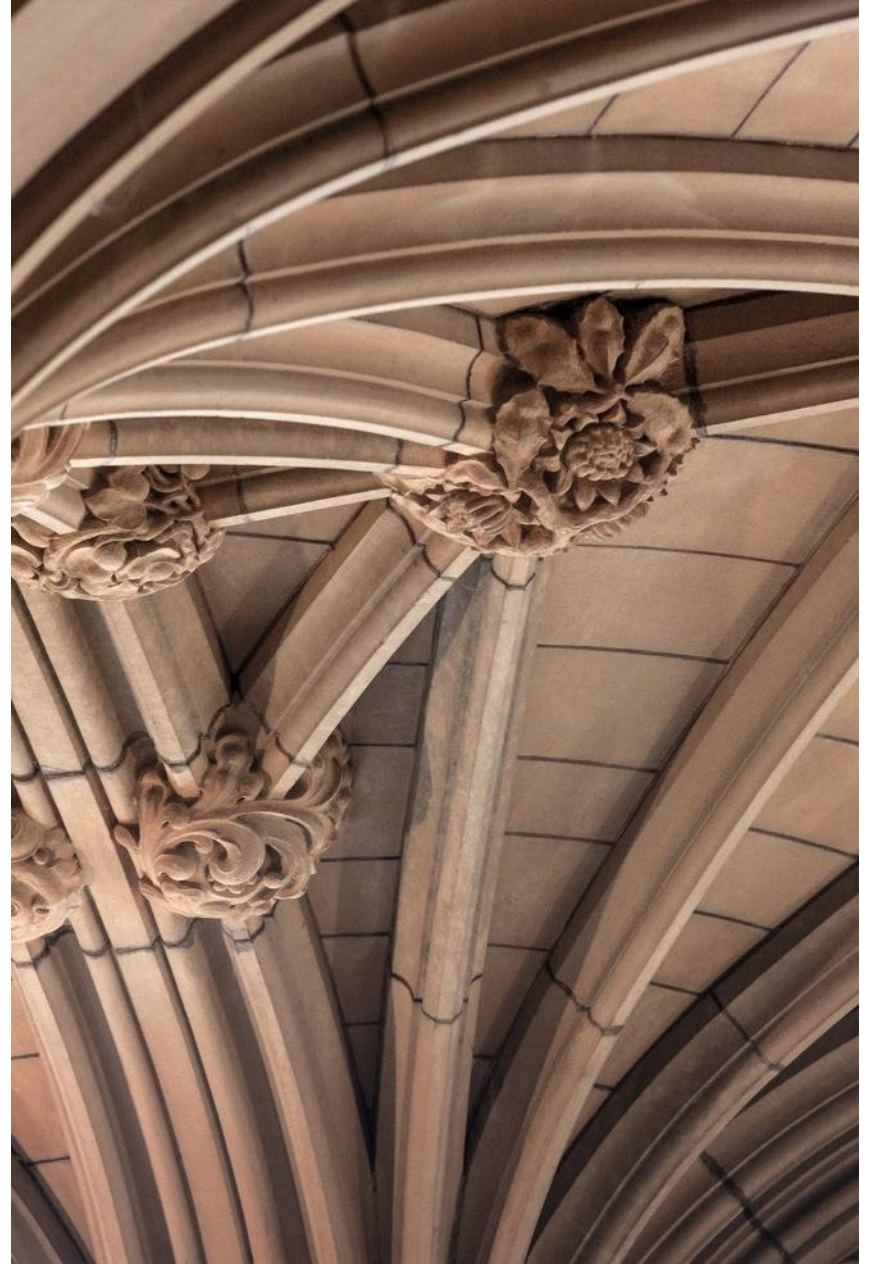
THE UNIVERSITY OF
SYDNEY

Welcome!

Acknowledgement of Country

I would like to acknowledge and pay respect to the traditional owners of the land on which we meet: the Gadigal people of the Eora Nation. It is upon their ancestral lands that the University of Sydney is built.

As we share our own knowledge, teaching, learning and research practices within this university may we also pay respect to the knowledge embedded forever within the Aboriginal Custodianship of Country.

Emergency procedures (on campus)

- In the unlikely event of an emergency, we may need to evacuate the building.

- If we need to evacuate, we will ask you to take your belongings and follow the green exit signs.

- We will move a safe distance from the building

- In some circumstances, we might be asked to remain inside the building for our own safety. We call this a lockdown or shelter-in-place.

- More information is available at www.sydney.edu.au/emergency.

Keeping our campus COVID-safe

– The University is following NSW Government and NSW Health guidance to prevent the spread of COVID-19, respiratory-type illnesses and other illnesses.

– All staff, students and visitors are required to follow our health and safety advice. This includes staying at home if unwell, isolating and testing, and to not return unless recovered or as advised by your health professional.

– Visit our website for more information about our COVID-19 response.

Health and safety advice

Stay home if you are sick

Wash hands regularly

Avoid physical greetings

Cough or sneeze into your elbow or tissue

Keep 1.5m away from others where possible

Avoid crowding entrances and exits

sydney.edu.au/covid-19

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COVID-19 support and care

– If you become infected with COVID-19 during the semester, or need to stay at home, please notify your unit of study coordinator, as with any unexpected absence.

– If COVID-19 illness impacts assessment, use the usual mechanisms including simple extensions and special consideration to arrange reasonable adjustments.

– Other helpful study information can be found on the Study Information page of Student website.

Student support

– Visit the <u>Student life, wellbeing and support</u> webpage to find out about the student services, resources and events available to support you while you study:

- – Health and wellbeing

- – Academic Support

- – Personal support

- – Getting connected

Questions about getting started this semester? Come visit us at a Welcome Hub

Anderson Stuart
Welcome Hub

Carslaw West
Welcome Hub

Safer Communities Office

- Support and case management for people who have experienced sexual misconduct, domestic/family violence, bullying/harassment or issues relating to modern slavery.

- Contact the team

  - 8:30 am to 5:30 pm Monday to Friday, Sydney local time

  - phone: +61 2 8627 6808

  - email: safer-communities.officer@sydney.edu.au.

  - campus: Level 5, Jane Foss Russell building, City Road, Darlington Campus

- Make a report

  - Visit the website to make a complaint or disclosure of sexual misconduct to the University.

Agenda

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

COMP5347/COMP4347: Lecture and Tutorials

- Lecture
  - 17:00 – 19:00 (online COMP5347 Canvas > Zoom)

- Labs/Tutorials
  - Tue. and Wed. (Remote (RE) and on Campus (CC))
    - Check your timetable
    - Attend ONE (go to the lab you're scheduled for)
    - Online COMP5347 Canvas > Zoom
  - Lab Schedule and material on Canvas
    - Starting from week 1
  - Hands-on practical exercises
    - Try it, debug and fix issues (experience)
    - Tutors to supervise your learning and provide guidance

COMP5347/ COMP4347: People

– Instructors:

  – Unit Coordinator and Lecturer: Dr. Basem Suleiman
    - Artificial Intelligence, Cloud Computing, Internet of Things (IoTs)
    - Basem.Suleiman@Sydney.edu.au
    - (02) 8627 6602, CS (J12), 2E 233
    - Consultation: Tuesday 4:00-5:00pm

  – Tutors (professional software engineers/web developers)
    - Frank Fu (frank.fu@sydney.edu.au)
    - Huaicheng Liu (huaicheng.liu@sydney.edu.au)
    - Hang (Hunter) Xu (haxu8521@uni.sydney.edu.au)
    - Rasim Khan (rasim.khan@sydney.edu.au)
    - Richard Lee (Richard.lee@sydney.edu.au)
    - Mark Denisove (mden2839@uni.sydney.edu.au)

Basem Suleiman – Research / Capstone Projects

– Developing next generation intelligent systems

  – Intelligent Recommender Systems (fashion, smart homes, fitness)

  – Intelligent Parking in Smart Cities (Melbourne city)

  – Predicating User Mobility Patterns in Confined Areas

  – Diffusing False News in Social Media Networks

  – Anomaly Detection in IoT-based Devices

  – Privacy-aware Online Proctoring

  – IoT Data Sensing and Data Analytics

  – Machine/Deep learning
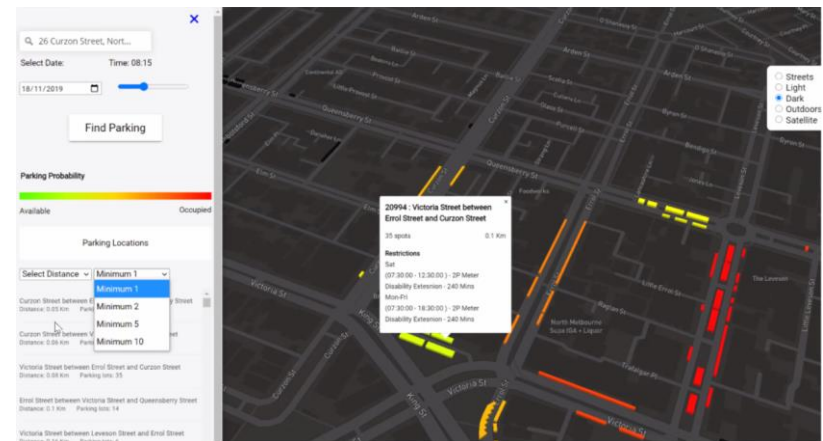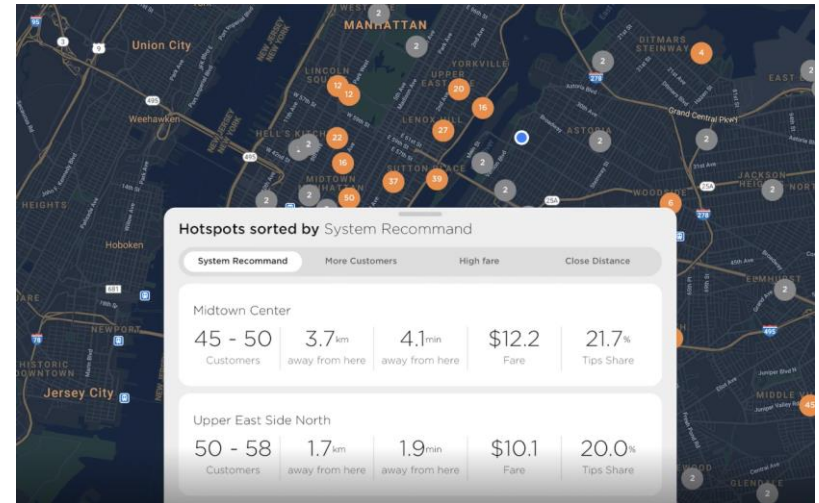
COMP5347/COMP4347: Resources

– Canvas (eLearning)
  – https://canvas.sydney.edu.au/
    • Login using Unikey and password
  – Link to Unit outline
    • Official schedule, list of learning outcomes, etc
  – Copies of lecture slides
  – Lab instructions
  – Assignment instructions
  – Lecture recordings
    • We intend to record the lectures, but the technology may not be reliable
  – *Submit official assignment work here*;
  – Gradebook
  – Discussion (Q&As) on Edstem (link from Canvas provided)

COMP5347/COMP4347: Reference Materials

– Randy Connoll, Ricardo Hoar, Fundamentals of Web Development, Pearson, 2015

– Amos Q. Haviv, MEAN Web Development, Packt Publishing, 2014

– Various Reading and Online Resources

COMP5347: Expectations

Prerequisites: (?)	INFO1103 or INFO1113 or COMP9103 or COMP9003 or COMP9220 or COMP5028
Corequisites: (?)	None
Prohibitions: (?)	COMP4347
Assumed knowledge: (?)	Experience with software development as covered in SOFT2412 or COMP9103 or COMP9003 (or equivalent UoS from different institutions)

- Contact your coordinator if you are not sure about your case
- Faculty of Engineering Services for formal approval

COMP4347: Expectations

Prohibitions ?	COMP5347
Prerequisites ?	ISYS2120 and SOFT2412
Corequisites ?	Enrolment in a thesis unit. INFO4001 or INFO4911 or INFO4991 or INFO4992 or AMME4111 or BMET4111 or CHNG4811 or CIVL4022 or ELEC4712 or COMP4103 or SOFT4103 or DATA4103 or ISYS4103
Assumed knowledge ?	Foundation knowledge of JavaScript
Available to study abroad and exchange students	Yes

- Contact your coordinator if you are not sure about your case
- Faculty of Engineering Services for formal approval

COMP5347/COMP4347: Expectations

- Students attend scheduled classes, and devote an *extra* 6-9 hours per week
    - Prepare and review lecture lab materials
    - Revise and integrate the ideas
    - Carry on the required assessments
    - 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 very frequently!
    - Notify academics whenever there are difficulties
    - Notify group partners honestly and promptly about difficulties

- Know the uni/school policies
    - See www.sydney.edu.au/it links under current students > postgrad_coursework > Guidelines

Advice for doing well in this unit

- To do *well* in this unit you should
  - Organize your time well
  - Devote 6-9 hours a week in total to this unit
  - Read.
  - Think.
  - Practice.

*"Tell me and I forget, teach me and I may remember, **<u>involve me and I learn</u>**." –* Benjamin Franklin

COMP5347/COMP4347: Assessment

- Assignments (45%)
  - **Assignment 1: client-side development project(15%)**
    - Individual, due on week 4
    - Submit code (10%) + quiz & demo (5%)
      - Script must be functional as per the requirements
      - Oral quiz & demo – about your assignment work week 4/5 tutorial

  - **Complete web application development (25%)**
    - Group work (3 students), due on week 11(inc. group demo)

  - **Quiz & demo (5%)**
    - Oral quiz & demo of own & group work on the group project
    - Week 11 and week 12

- Always check assignments' updates on Canvas/Ed regarding
- Check your marks on eLearning/Canvas
- Report any error to the coordinator within 10 days you receive your mark

COMP5347/COMP4347: Assessment

– Final Exam (55%)

  – 2-hour supervised exam

  – Covers all lecture, tutorial and assessment materials

  – School of CS policy requires that you must get at least 40% of the marks available on the exam, in order to pass the unit

  – More on exam structure and preparation in week 13

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 the coordinator by email *as soon as anything begins to go wrong*

– There is a similar process if you need special arrangements e.g., for religious observance, military service, representative sports

Late Assessments

- Suppose you hand in work after the deadline:

- If you have not been granted special consideration or arrangements
  - A penalty of 5% of the available marks will be taken, per day (or part) late
  - Late penalty does not apply to the quiz; you cannot re-take the quiz if you miss it
  - If you have been granted special permission for quiz, extension might be applied
- Warning: submission sites get very slow near deadlines
- Submit early; you can resubmit if there is time before the deadline

Academic integrity

For the first and subsequent sessions

Academic integrity

- Academic integrity refers to behaving honestly, ethically and responsibly in relation to all elements of your study at the university, including assessments.

- Always submit your own work, sit your own tests, and take your own examinations.

- Acknowledge any contributions in your assignment which are not your original thoughts, ideas or words.

- Academic Honesty Education Module – all commencing students must complete by census date. Continuing students can self-enrol at any time.

Strategies for maintaining academic integrity

Planning and time management

Use citations and referencing

Know your strengths and what you need to develop

Know when and where to ask for help

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What is academic dishonesty?

The following are some behaviours that are academically dishonest:

- **Plagiarism** (this is the most common form)

- **Collusion** or illegitimate co-operation

- **Recycling** (using your own work from previous assessments)

- **Cheating**, including **contract cheating**

    - sharing questions or accessing solutions on online "help sites"

    - receiving coaching from a private tutoring company on how to complete an assignment

    - asking someone else to write your assignment (for payment or not)

- **Exam cheating** (using prohibited materials, working with others)

- **Fabrication** or falsification of sources, data or results

What are the consequences?

– The University has strong mechanisms for detection of potential academic dishonesty.

– Suspected breaches are reported to the faculty educational integrity team for investigation.

– The University is deeply committed to ensuring the integrity of its educational programs and treats integrity breaches seriously. As a result, the **academic consequences** for cheating are numerous.

– You may:

  – need to resubmit a task with a mark penalty or

  – receive a 0 for the assessment or even the unit of study

  – be suspended or even excluded from your studies for serious misconduct

Understanding contract cheating

Commercial cheating services are **ILLEGAL** in Australia. Illegal cheating services offer to:

— Sell you essays, assignments, study notes or exams

— Ask you to upload previous work from your course

— Sit exams on your behalf

If you use cheating services, you can face disciplinary action in accordance with USYD's policies. Resulting action can include:

— Failing the unit of study or course

— Suspension or exclusion from your studies

— Losing your professional accreditation

— Being blackmailed by cheating service operators

— For international students, losing your visa

Be aware of illegitimate services

– Be aware of any services that are not affiliated with the University.

– In the online environment, malicious organisations masquerading as 'online help sites and platforms' are preying on students.

- These organisations may pressure you to pay for online assistance, then turn to **blackmail** when you change your mind.

- Essays or solutions bought from the internet are usually **poor quality,** badly written and often **wrong.**

- You won't acquire the skills and knowledge required for your degree, making it difficult to complete further assessments

✉ **As a student, you can contact the <u>Office of Educational Integrity</u> to report something anonymously or seek advice.**

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Sitting proctored tests

– ProctorU software is used to monitor your conduct during an exam.

– Incidents are flagged to the University and reviewed for breaches of academic integrity.

– The exam will be compromised if you:

  ▪ Use prohibited materials (e.g., headphones, mobile phones, etc)

  ▪ Communicate or collude with others

  ▪ Seek help via a third party, the university's sites or help sites

To ensure success, we recommend the following tips:

1. Sit directly in front of the camera

2. Review the online test support site on Canvas

3. Know what materials are permitted during the exam.

4. Have your ID ready

5. Don't wear headphones, either wired or unwired

Support services

The Office of Educational Integrity

— Report anonymously or seek advice: educational.integrity@sydney.edu.au

Learning Hub

— The Learning Hub (Academic Language and Learning) offers workshops, online resources and individual consultations on study and writing skills.

— The Learning Hub (Mathematics) offers bridging courses, drop-in services and online resources.

Library

— Check out the Library's online resources and referencing and citation styles.

— You can also chat with a Peer Learning Advisor about your studies, including referencing questions

Counselling and mental health support

— The University's Counselling and Psychological Services provide self and time-management workshops and online resources.

Special Arrangements and Consideration

— Apply for special consideration if impacted by short-term illness or misadventure

Disability Services

— Register for Disability Support

Student organisations

— SRC (undergraduate students)

— SUPRA (postgraduate students)

Academic Integrity Practice

School of Computer Science

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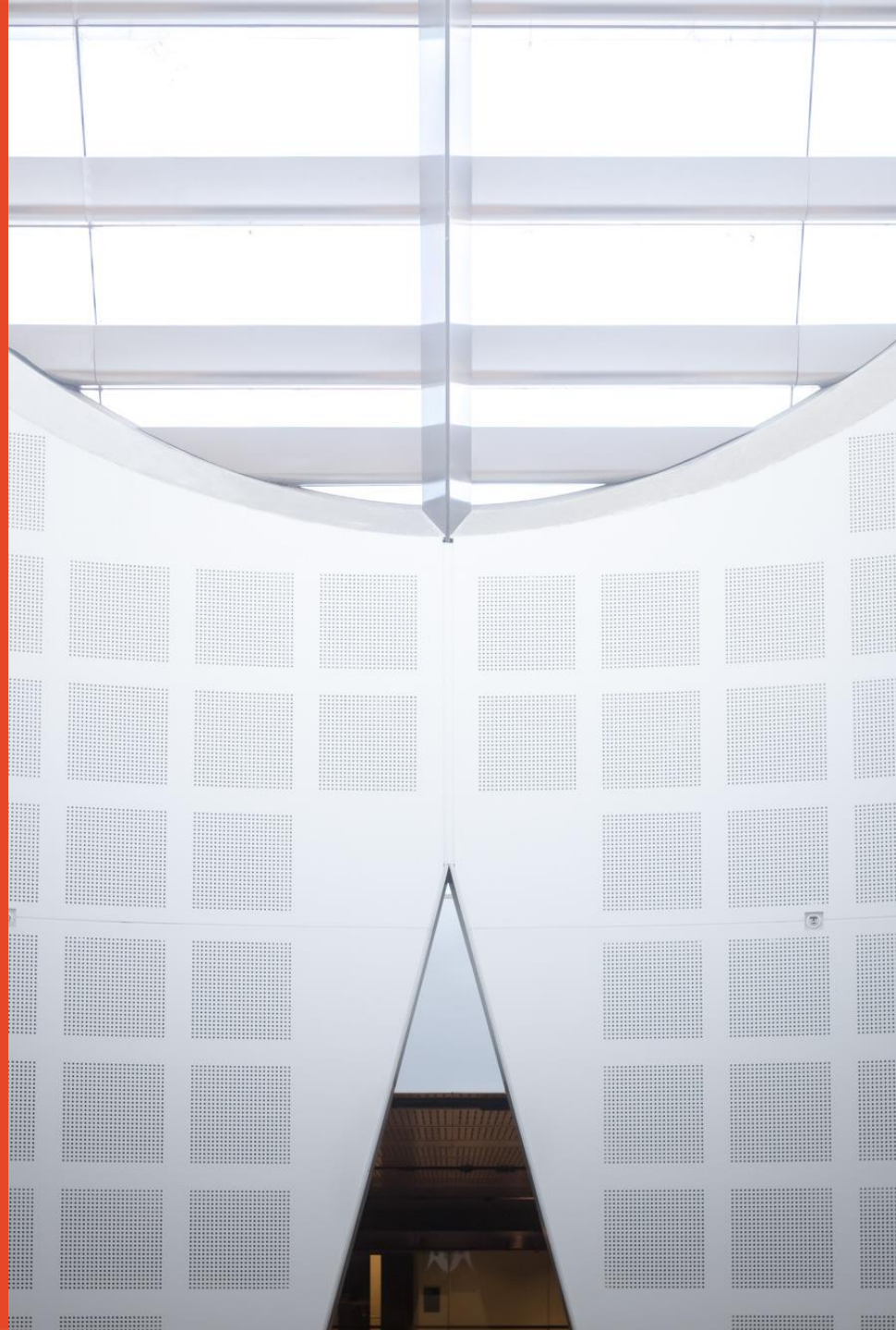
Different levels/types of Academic Integrity practice

- Source:
  - Different types of sources 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.

Example : Intermediate/Senior level specialist UoS

Source of Help

Teaching Assistants / Tutors	Classmates	Private tutors	Online forums/other students/Online tutors		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 teaching team

Team Dynamics

- Teams must organize itself
  - Arrange internal communication and meetings
  - Set internal deadlines
  - Follow up if deadlines are missed
  - Have fallback mechanism
  - Have dispute resolution mechanism

- Use team and development tools

- Let your tutor know quickly if there are problems (unresolvable disagreements, member who doesn't contribute, etc.)
  - Tutors will report to the coordinator if problems cannot be resolved

WHS Induction

School of Computer Science

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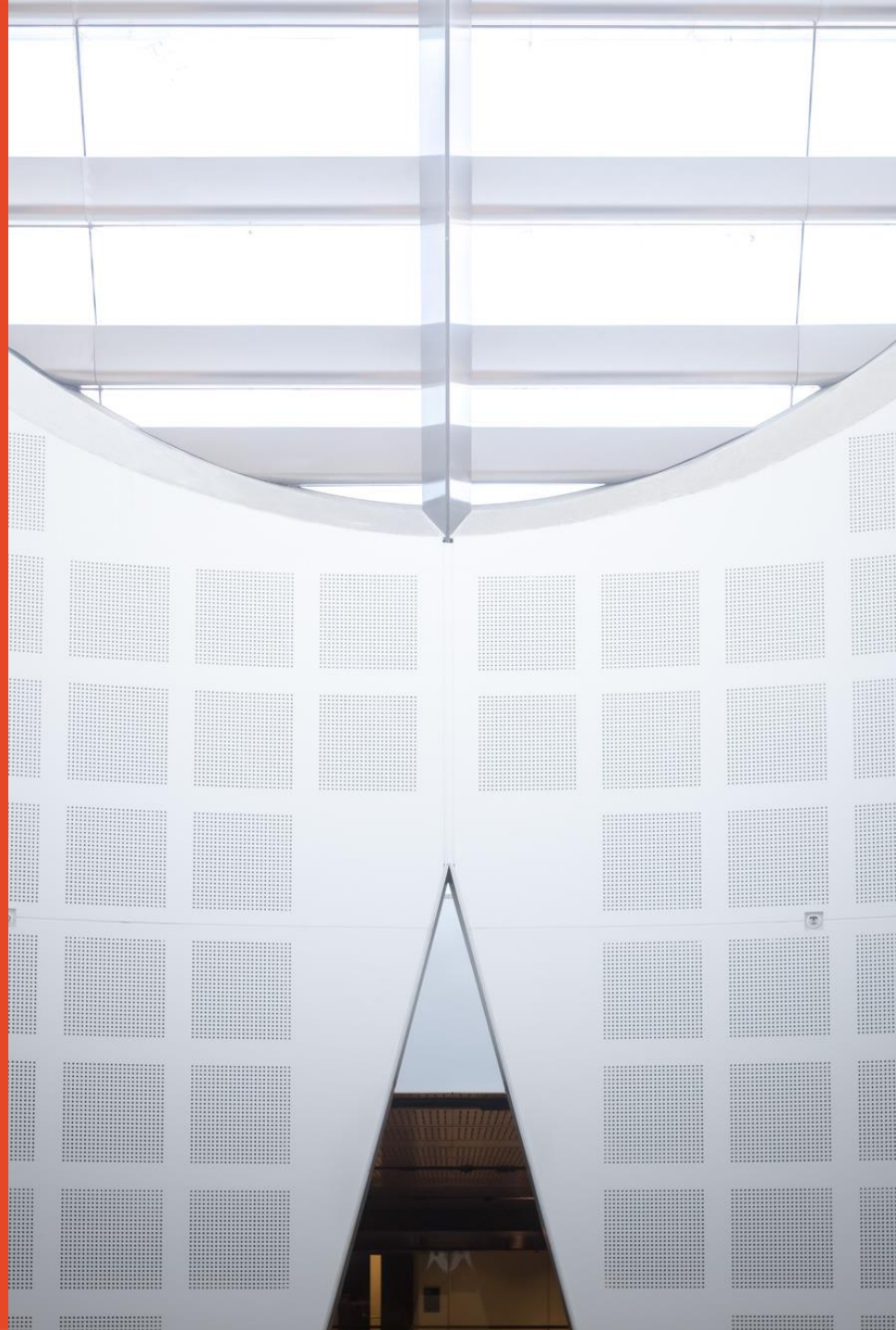
General Housekeeping – Use of Labs
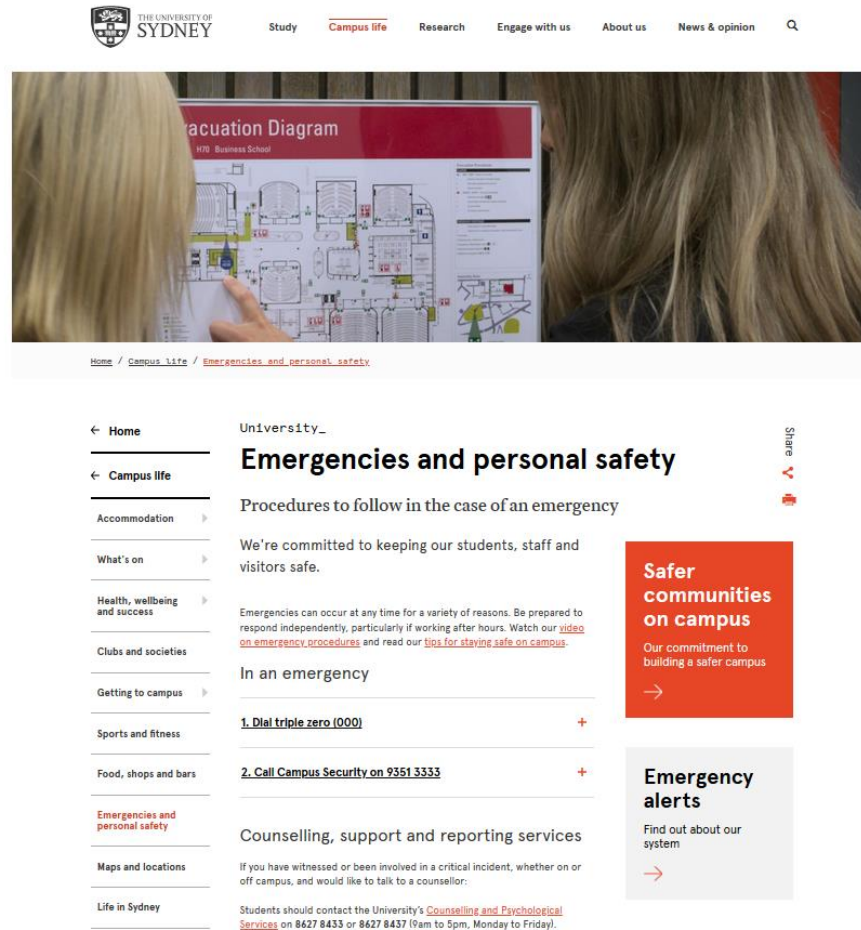
- Keep work area clean and orderly
- Remove trip hazards around desk area
- No food and drink near machines
- No smoking permitted within University buildings
- Do not unplug or move equipment without permission

EMERGENCIES – Be prepared

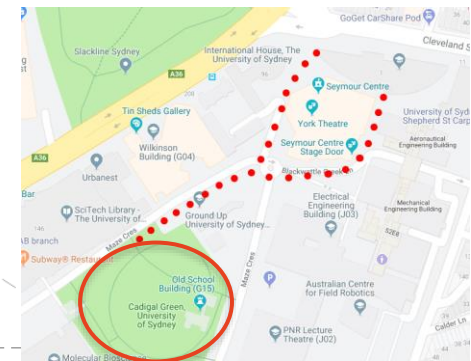**https://sydney.edu.au/campus-life/safety-security.html**

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

I

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 5W
8627 9058

Will Calleja
Level 1W 103
9036 9706
0422 001 964

Cecille Faraizi
Level 2E 237
9351 6060

Orally REPORT all INCIDENTS & HAZARDS to your SUPERVISOR

OR

Undergraduates:	Xiaofei Liu
	8627 6488
Postgraduates HDR:	Cecill Faraizi
	9351 6060
Postgraduates CW:	Keiko Narushima
	8627 0872
CS SchoolManager:	Priyanka Magotra
	8627 4295

Assistance

– There are a wide range of support services available for students: https://sydney.edu.au/campus-life/health-wellbeing-success.html

– 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

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Current students

Get help in an emergency: We are committed to providing a safe environment for all students.

More information

Student life, wellbeing and support

Everything you need to know about the student services, resources and events available to support you while you study.

Health and wellbeing

Academic support

Personal support

Get connected

Careers

Right from your first year at university, you have access to an abundance of career counselling services and resources to help put you in the best career position by the end of your degree.

→

Transition to Sydney

Whether an international student travelling to Sydney from overseas, or a domestic student transitioning to uni life, we have info and support services to help you settle in.

→

Support with your study decisions

Our Advising hub provides one-on-one support to help you make study-related decisions that will help you achieve your personal and academic goals.

Book an appointment now.

All University of Sydney Students have free access to:

Innowell

The right resources and support at the right time to maintain and improve your physical and mental health.

TalkCampus

Free and instant support for your mental health and wellbeing anytime of the day, anywhere in the world.

All University of Sydney **International Students** have free access to:

Sonder

24/7 safety and wellbeing app to get you the support you need whenever and wherever you are.

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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 Canvas
  - 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
  - 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!

CS All Student & Staff 2023 - Meet & Greet

Join and meet your School of Computer Science lecturers, staff, and peers

Everyone is welcome!

Tuesday 28th February
J12 - Wintergarden 3:30 - 5:30 PM

Next …

How the web works

JavaScript (Intro.)