

Agile Software Development Practices SOF2412 / COMP9412

Course Introduction

Dr. Basem Suleiman

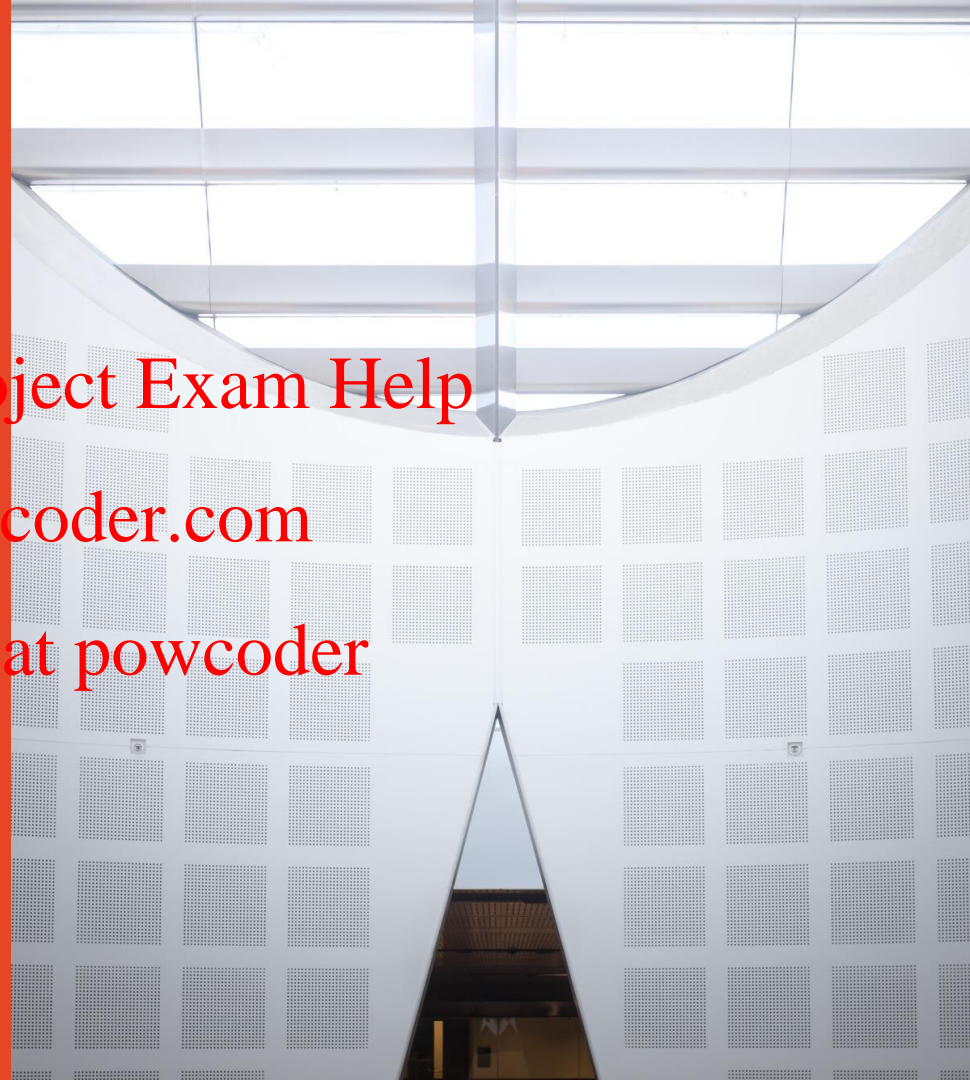
School of Computer Science



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Welcome

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Acknowledgement of Country

I would like to acknowledge the Traditional Owners of Australia and recognise their continuing connection to land, water and culture. I am currently on the land of the Gadigal people of the Eora Nation and pay my respects to their Elders, past, present and emerging.

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I further acknowledge the Traditional Owners of the country on which you are on and pay respects to their Elders, past, present and future.

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 and maintain physical distancing whilst waiting until the emergency is over.
- 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.
- Further information is available at www.sydney.edu.au/emergency

Keeping our community safe

We can all help reduce the spread of COVID-19 through following good hygiene practices:

- **Wash hands regularly**, for at least 20 seconds with soap and water, or use an alcohol-based hand rub.
- **Cover your mouth** when coughing and sneezing with a tissue or a flexed elbow.
- Maintain a **distance of at least 1.5m** between yourself and others, where possible.
- **Avoid large gatherings**, where possible.
- **Avoid close contact** with anyone **with cold or flu symptoms**, e.g. fever, cough, runny nose or shortness of breath.

Keeping our community safe

- All students and staff who have cold or flu symptoms should **isolate** themselves from others.

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- If you are unwell with cold or flu symptoms **please excuse yourself from this class** and we will support you to continue the work remotely.

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- Make sure you read the information on **special consideration** in the unit outline.

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Keeping our community safe

- The University is following advice from the government and related public health authorities.

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- For the latest information, see the [advice on the University website](#).

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- In some classes, especially those involving use of shared equipment, please follow additional advice from your coordinators.

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- Please take care of each other and yourselves and if you need support reach out to your unit coordinator or the health and wellbeing area of the [Current Students website](#).

Tips for students joining online

- Remember that you are still in a space with other students.
- Mute your microphone when not speaking.
- Use earphones or headphones - the mic is better and you'll disturb others less.
- If you have a webcam, please switch it on so we can see you!
- If you are speaking to the camera, make eye contact with the camera (and therefore your classmates and teacher).
- Try not to talk over someone else.
- Use the chat function to send messages to the teacher or classmates during class.

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Tips for students learning online

- For tips and guides on learning online and the tools you will use, refer to [Learning while off campus resources](#) in Canvas.


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UNIV_STUDENT_CANVAS_GUIDE

Home
Modules
Pages
Recorded Lectures

View All Pages

Learning while off campus

This is a unique situation for all of us. The University is working hard to make sure that you are receiving an excellent educational experience despite possibly not being able to learn on campus. Studying online may be an isolating experience - this page has some ideas to help you adjust to learning while off campus.

Remember to stay positive - this too will pass! Look after yourself and those around you, and prioritise your time accordingly. You will have productive and not-so-productive days - that is OK. Remember to snack healthily, take regular breaks, and reward yourself from time to time, especially after a challenging task.

On this page:

- [How can I keep up to date with my study?](#)
- [How should I access classes like lectures and tutorials?](#)
- [What should I do in a live-streamed class?](#)
- [How can I communicate with my teachers?](#)
- [How can I communicate with my classmates?](#)



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Reminder

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For the second and subsequent sessions

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Keeping our community safe

- Remember good hygiene practices and physical distancing:
 - Frequent handwashing
 - Cough or sneeze into a tissue or your flexed elbow
 - Maintain a distance of at least 1.5m between yourself and others, where possible
 - Avoid large gatherings, where possible.
- If you are unwell with cold or flu symptoms please excuse yourself from this class and we will support you to continue the work remotely.

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Agenda

- Administrivia and Course Introduction

- Work Health and Safety (WHS)

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SOFT2412 – People

– Instructors

- › Unit coordinator: Dr. Basem Suleiman (basem.Suleiman@Sydney.edu.au)
 - › Phone: 8627 6602, Office: CS room 233
 - › Academic matters and all paperwork and admin issues
 - › Illness or misadventure
 - › Rules and policies
 - › Group difficulties
- › Tutors: depends on your timetable

SOFT2412 – People

- Software Engineer and Computer Science Professionals
- **Tutoring Team** **Assignment Project Exam Help**
 - Muhammad Johan Alibasa - mali6235@uni.sydney.edu.au
 - Muhit Anik - muhit.anik@sydney.edu.au
 - Mohammed Mustafa Fulwala - mohammed.fulwala@sydney.edu.au
 - Frank Fu - frankfu@sydney.edu.au
 - Adhish Panta - apan0916@uni.sydney.edu.au
 - Ruchita Manuja - ruchita.manuja@sydney.edu.au
 - Ronald Noronha - rnor3536@uni.sydney.edu.au
 - Qifan Chen - qifan.chen@sydney.edu.au
 - Sajith Ramadasan - svaz0513@uni.sydney.edu.au

SOFT2412 – Resources

- eLearning (Canvas)
 - Login using Unikey and password
 - Unit outline
 - Official schedule, list of learning outcomes, etc
 - Lab instructions
 - Assignment instructions
 - Very careful attention and regular check of the weekly materials/projects/assessments/instructions etc
 - *Submit official assignment work here;*
 - see your grades; etc
 - Discussion forum and announcements: on **edstem** link from Canvas site

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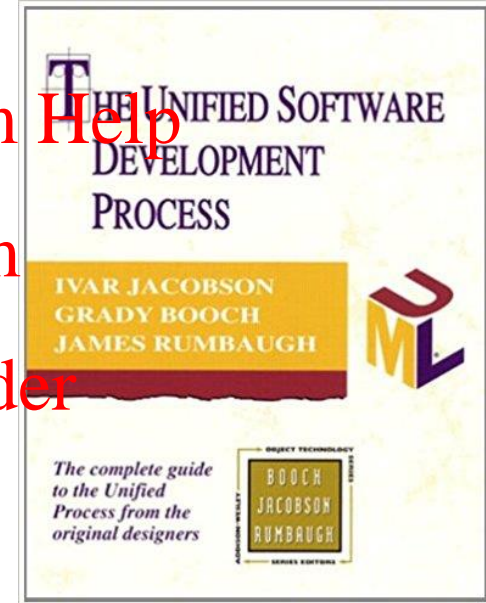
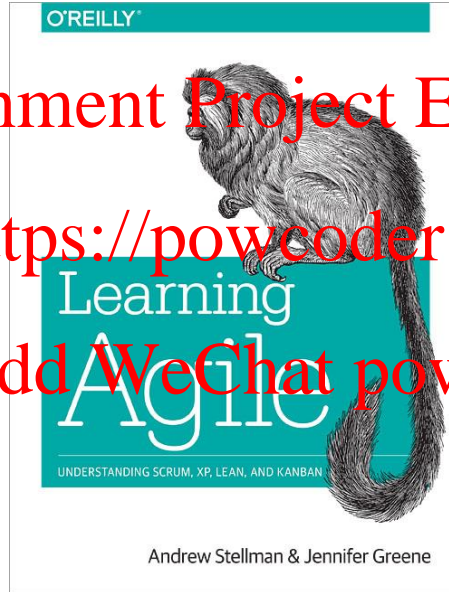
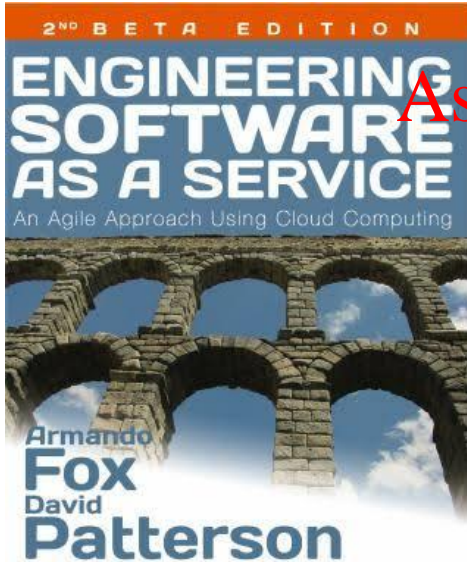
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Prerequisites

- This course has the following prerequisites:
 - INFO1113 OR INFO1103 OR INFO1105 OR INFO1905
- This means that we expect students who enroll in this course to be:
 - Object-Oriented Programming (in Java) and/or
 - Data structures and algorithms (some Java programming)
- Prohibitions
 - COMP9412

Main Resources (Textbooks)

- We recommend the following textbooks



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Lab / Tutorial Work

- 2-hour lab/tutorial work
 - Check your schedule and allocation on the timetable
- Lab materials on Canvas
- Great opportunity for interactive and hands-on learning experience
- Quizzes and group/individual demos
 - Quizzes linked to lab./tutorial exercises
- Respect your tutors and value their feedback
- Tutors will supervise your learning, provide you guidance
 - Ask your questions and discuss with tutors and group/classmates
- Do not miss tutorials/labs

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SOFT2412 – Expectations

- Students attend scheduled lectures and tutorials, and devote at 9-12 hrs per week (6 CP)

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- Students are responsible learners
 - Participate in tutorials and meetings 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 at least once a week!
 - Notify academics whenever there are difficulties
 - Notify group partners honestly and promptly about difficulties

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Tools you will use

- Git/Github
- Junit
- Gradle
- Jenkins
- Trello/Slack
- Others

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Feedback

- Try to solve problems then talk to us (e-mail) if:
 - You have problems or are struggling
 - You can't understand the contents,
 - You think there's something else wrong
- A discussion forum is setup:
 - Ed for discussions
 - Please use Ed for technical questions so that everybody can benefit from the questions and answers

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SOFT2412 – Topics Overview

WK	Topic
01	1. Introduction to software development processes; 2. Introduction to Git
02	Version control: Git team collaboration
03	Build automation: software build and configuration
04	Software quality assurance: software testing
05	1. Continuous integration (CI); 2. Continuous delivery/deployment (CD)
06	1. Group dynamics: tools and technologies for teamwork; 2. Issue tracking
07	Agile software development: Scrum method and agile team structure
08	Scrum method: expressing requirements
09	Scrum method: planning and estimation
10	Ethics, intellectual property, licensing and open source software
11	1. Reflection: project experiences and lessons learned 2. Industry speakers
12	Review, Exam Structure

<https://www.sydney.edu.au/units/soft2412/2020-S2C-ND-CC>

Feedback to you!

- When you submit work, we have to mark it;
- We try to make this feedback as fast as possible
- Progressive marks will be recorded on Canvas

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Feedback to you will take many forms: verbally by your tutor, as comments accompanying hand marking of your assignment work, and automated quiz answers. Do pay attention to this feedback, it's expensive stuff.

Assessment

What (Assessment)*	When (due)	How	Value
Group project 1 – Agile development tools	Week 6	Group project	15%
Quiz 1	Week 6	Individual	5%
Group project 2 – SW development using Scrum and Agile tools	Week 12	Group project	25%
Quiz 2		Individual	5%
Exam	Exam period	Individual exam	50%

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Passing this unit

- To pass this unit you must do all of these:

- Get a total mark of at least 50%
- Get at least 40% for your exam mark

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Advice for doing well in this unit

– To do well in this unit you should

- Organize your time well
- Devote 10-12 hours a week in total to this unit
- Read.
- Think.
- Practice.

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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

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EMERGENCIES – Be prepared



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

The screenshot shows the University of Sydney's 'Emergencies and personal safety' page. The navigation menu on the left includes links to Home, Campus life, Accommodation, What's on, Health, wellbeing and success, Clubs and societies, Getting to campus, Sports and fitness, Food, shops and bars, Emergencies and personal safety (highlighted), Maps and locations, and Life in Sydney. The main content area features the heading 'Emergencies and personal safety' and the subheading 'Procedures to follow in the case of an emergency'. It states the university's commitment to keeping students, staff, and visitors safe and provides information on how to respond in an emergency. Two numbered steps are listed: '1. Dial triple zero (000)' and '2. Call Campus Security on 9351 3333'. The right sidebar contains two sections: 'Safer communities on campus' and 'Emergency alerts'.

University of Sydney
Campus life
Research
Engage with us
About us
News & opinion

Home / Campus life / Emergencies and personal safety

← Home
← Campus life
Accommodation
What's on
Health, wellbeing and success
Clubs and societies
Getting to campus
Sports and fitness
Food, shops and bars
Emergencies and personal safety
Maps and locations
Life in Sydney

University of Sydney
Emergencies and personal safety
Procedures to follow in the case of an emergency

We're committed to keeping our students, staff and visitors safe.

Emergencies can occur at any time for a variety of reasons. Be prepared to respond independently, particularly if working after hours. Watch our [video on emergency procedures](#) and read our [tips for staying safe on campus](#).

In an emergency

1. [Dial triple zero \(000\)](#)

2. [Call Campus Security on 9351 3333](#)

Counselling, support and reporting services

If you have witnessed or been involved in a critical incident, whether on or off campus, and would like to talk to a counsellor:

Students should contact the University's [Counselling and Psychological Services](#) on 8627 8433 or 8627 8437 (9am to 5pm, Monday to Friday).

Safer communities on campus
Our commitment to building a safer campus
→

Emergency alerts
Find out about our system
→

WHERE IS YOUR
CLOSEST SAFE EXIT ?

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[illegible]

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.

 **WHOOOP... WHOOOP...**

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 or 0411 406 322



FIRST AID ICERS



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
or Keiko Narushima
8627 0872

CS School
Manager:

Priyanka Magotra
8627 4295

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Assistance

- There are a wide range of support services available for students:
https://sydney.edu.au/campus_life/health_wellbeing_success.html

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- Please make contact, and get help

<https://powcoder.com>

- You are not required to tell anyone else about this

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- 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

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:

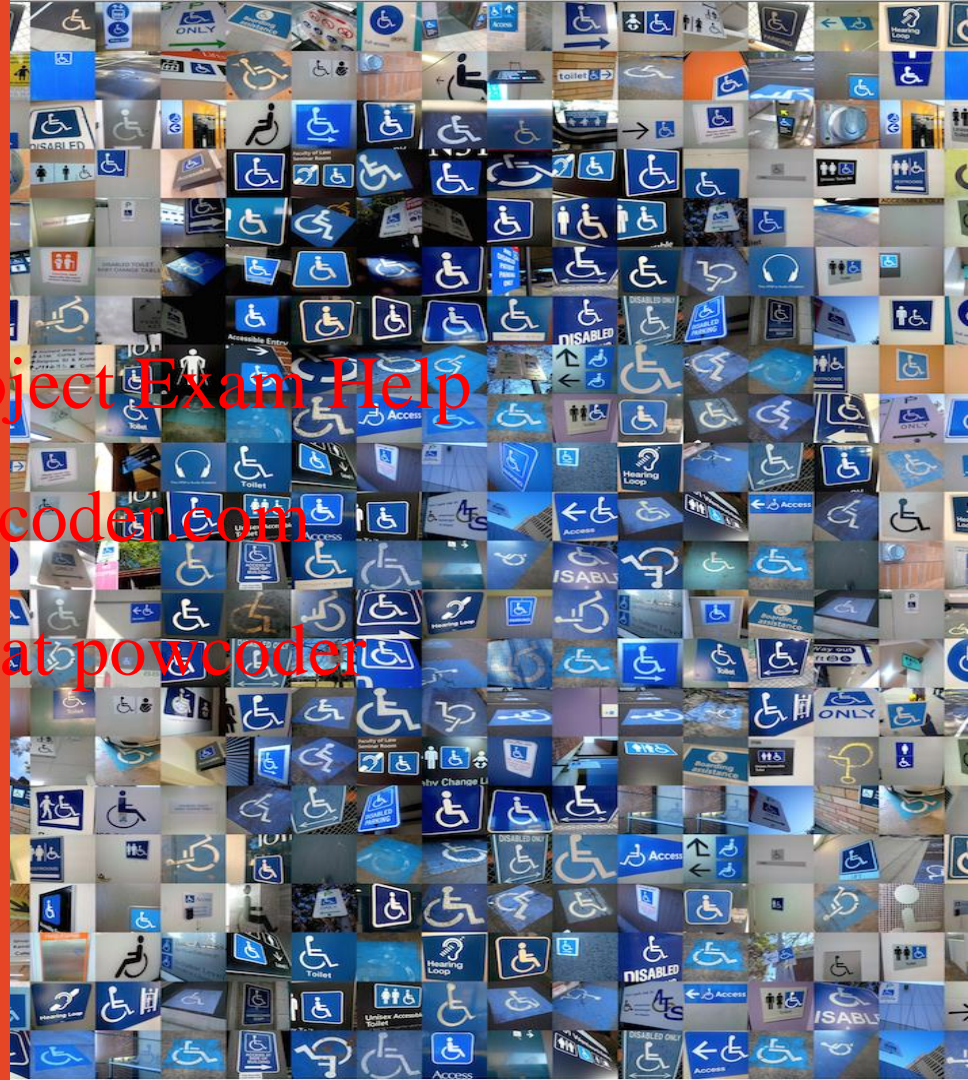
Anxiety // Arthritis // Asthma // Autism // ADHD
Bipolar disorder // Broken bones // Cancer //
Cerebral palsy // Chronic fatigue syndrome
Crohn's disease // Cystic fibrosis // Depression Diabetes //
Dyslexia // Epilepsy // Hearing impairment // Learning disability
// Mobility impairment // Multiple sclerosis // 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.



THE UNIVERSITY OF
SYDNEY

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



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, posttraumatic 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>

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

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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!

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Software Development Processes

Tools and Technologies
Assignment Project Exam Help
Controlling Artefacts

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