

# **Acknowledgement of Country**

We acknowledge and pay our respects to the Kurna people, the traditional custodians whose ancestral lands we gather on. We acknowledge the deep feelings of attachment and relationship of the Kurna people to country and we respect and value their past, present and ongoing connection to the land and cultural beliefs.



## Welcome to Computer Networks and Applications



## How we can help

- Counselling and support
  - 8313 5663
- **Safer Campus Community**
  - Report harassment or anti-social behaviour
  - 8313 5663
- Healthcare on campus
  - Unicare
  - 8313 5050



# Computer Networking and Applications

- Lecturer and Course Coordinator

- Damith Ranasinghe


- [damith@cs.adelaide.edu.au](mailto:damith@cs.adelaide.edu.au)

- Office Hours (***no need to make an appointment, drop by***)



## Revision and Consulting Times



- Week 1 to Week 12 (teaching weeks):
  - Where: Microsoft Teams **drop in sessions or my office.**
    - Microsoft Teams meeting (Join on your computer or mobile app) [Click here to join the meeting](#) 
    - Time: 5:10 - 6:00 pm Thursdays and 3:10 - 4:00 pm Friday
  - Where: You can also talk to me after the lectures

- Contact details, Workshop facilitators etc.

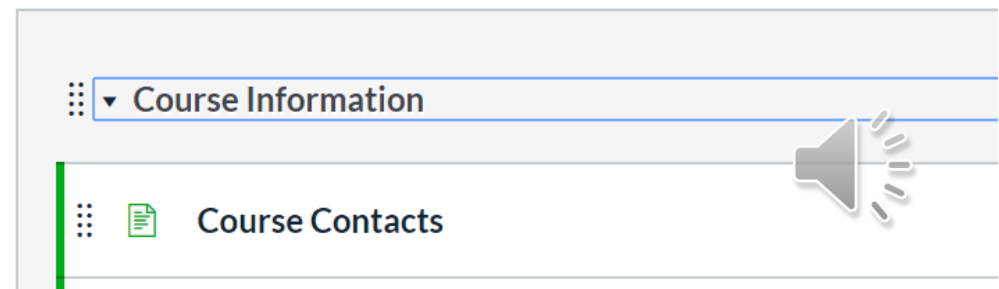


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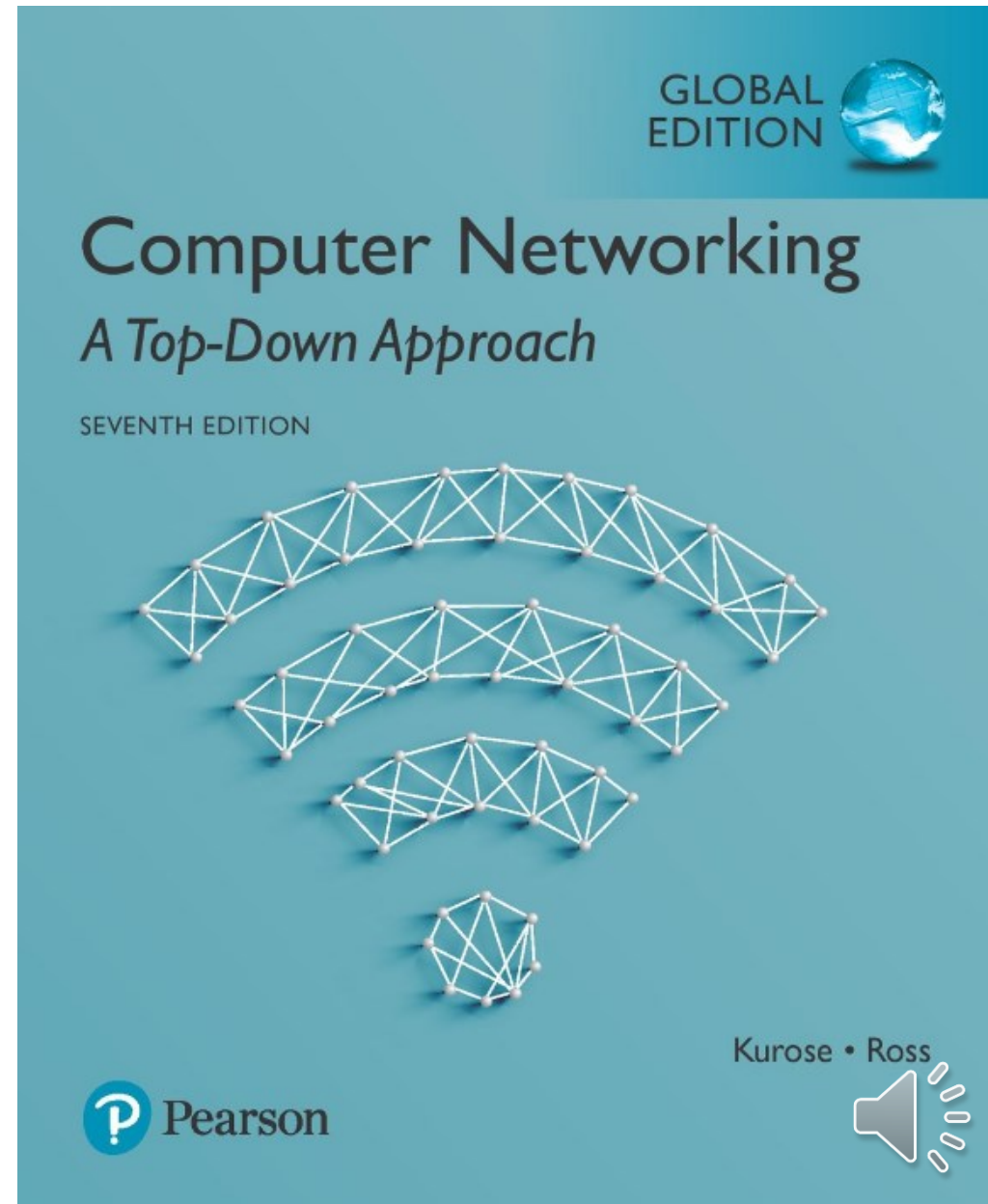
[Discussions](#)





## Course Resources

- Textbook
  - Kurose & Ross - Computer Networking: A top-down approach featuring the Internet (7<sup>th</sup> or 8<sup>th</sup> ed.)



## Course Resources

- lecture slides
- Wireshark Quizz Labs (self guided)
- Programming assignments
- Piazza discussion forums are available on All on Canvas/myuni



## Course Resources

The textbook's website has self tests, applets and other tools. However, you have to have a **subscription** (comes free with textbook).

**\*Lots\*** of examples, tutorials, demos, etc on the web.

Free material [https://gaia.cs.umass.edu/kurose\\_ross/interactive/](https://gaia.cs.umass.edu/kurose_ross/interactive/)



### INTERACTIVE END-OF-CHAPTER EXERCISES

The links below will take you to end-of-chapter exercises where you'll be presented with an exercise whose solution can then be displayed (hopefully after you've solved the exercise yourself). Each of the exercises below is similar to an end-of-chapter problem in the text. Most importantly, you can keep generating new instances of each exercise (and hopefully solving each one!) until you've mastered the material.

You may be interested in other supplemental material (online lectures, powerpoint slides, review questions, Wireshark labs) for our book, available [here](#).

This page replaces the earlier interactive problems page, and includes a number of new problems. We're actively adding new problems here. If you've got any comments or suggestions - let us know at [kurose@cs.umass.edu](mailto:kurose@cs.umass.edu)



## Expectations (\*assessed items)

***On average at least 10 hours per week***

☐ Lecture time (2 hours per week)

- Will be recorded on Echo360
- Incorporate problem solving (example questions)

☐ Reading and review 1-3 hours per week (Textbook Chapter References)

☐ Material builds, so you ***must*** keep up.

**1 \*** Approx. Weekly Wireshark Lab Quiz on **Canvas** (1-2 hours per week, *on your own and using your own devices*)

**2 \*** Programming assignments (3-4 hours per week)

**3 \*** Three Workshops (2 hours preparation, submission for marking prior to your workshop. Attendance: on-camps/online)

**4 \*** Exam (closed book, at the end of the course)



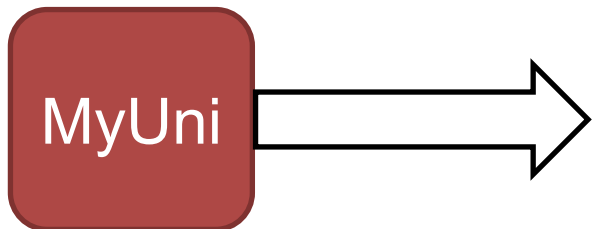


### Expectations - Communication

- We will use Piazza for all our discussions and announcements.
  - We will respond to course questions on Piazza within 2 **business** days (generally much faster!). Avg response time < 2hrs
  - You can also send messages of a private nature to me on piazza, and I *prefer this to e-mail*. I'll get back to you within 2-3 business days.
- We will respond to **e-mails** within 5 **business** days
- You are ***expected to read*** course announcements within 1 day



1. Closed book final exam (60% of final result, hurdle: **you need at least 40% of the mark of the exam to pass this course**)
2. Wireshark Labs (Eight) (10%) (do these on your own, use the packet captures when provided)
3. Three Programming Assignments (25%) (*There are designed based on the expectation that you are in a 3<sup>rd</sup> year Computer Science or Postgraduate degree program and that you are proficient in a programming language such as C/C++/JAVA or Python*)
  - Extra component for PG students in Programming Assignments
4. Workshop participation (5%) (submission and participation, *the set deadline is a REMINDER only*)
  - Opportunity to ask questions and get clarifications and feedback or explore.
  - Tailored to your group



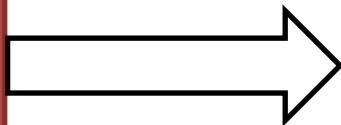
### Hurdle requirement - Exam

- The final exam has a hurdle requirement, you are required to achieve at least 40% of the marks allocated in the exam.
- If your mark for the final exam is less than 40% of the allocated marks, and your overall mark is greater than 45, your overall mark will be **reduced to 45 F**.
- To pass this course, you must obtain a passing mark overall and achieve at least 40% of the available marks for the exam with a hurdle.



### Read “Course Information” on Canvas for:

- Assessment details (including hurdle requirements)
- Late policy
- Extension policy
- Academic honesty policy

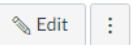


2022 Semester 1

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- Course Readings
- Piazza
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- People
- Toolkit
- New Analytics
- LMS Analytics

#### Recent announcements

### Computer Networks & Applications (3001\_7039 Combined)



Welcome to Computer Networks and Applications. I am Damith, both the lecturer and the course coordinator for your course. [My Lab](#) and our [Lab's facebook](#) page (we try to keep this updated) gives you an idea of what I do when I am not teaching.

I am looking forward to a great semester with you all. This course has a lot of content so expect to do a lot of reading as we start to put the networking pieces together.

You'll find all of the course material and information in the links below. Please read through Course Information before our first lecture.

#### Reminders and Important Notes

- **All of the lectures** or course content is made available via Echo360 and there are no physical lectures to attend.



### Late Policy for **Programming** Assignments

- You should hand your coursework in on time.
- If you hand in your work late, based on how many days late it is.
  - 1 day late – grace period
  - 2 days late – grace period
  - 3 days late – grace period
  - more than 3 days late – no marks available

NOTE: 1 day is the 24 hour period starting from the assignment deadline



### Late Policy for All ***Other*** Assessments

- You should hand your work in on time to receive marks
- **Workshops**
  - have a global reminder to urge you to submit – not looking for right answers, an informed attempt, your thinking is enough.
  - Even if late, ***submit***. If you miss a workshop, go to another. We are OK with this and you don't need to inform us.
- **Wireshark Lab Quizzes**
  - You have, on average more than a week
  - on average it should take about 2 hours.
  - Missed/Lost marks can be made up with the bonus Quiz! 😊



### Late Policy for **Programming** Assignments

- You should hand your coursework in on time.
- If you hand in your work late, based on how many days late it is.
  - 1 day late – grace period
  - 2 days late – grace period
  - 3 days late – grace period
  - more than 3 days late – no marks available

NOTE: 1 day is the 24 hour period starting from the assignment deadline



# How will I get feedback in this course?

1. **Discussions and questions in lecture** (opportunity to ask questions and clarify material) and **discussion forums** on Canvas
2. **Quizzes** provide self learning modules with feedback on your answers and when you get things wrong. Also you can discuss questions online on Canvas.
3. **Practical 1:** Automatically marked and then *manually* marked (individual feedback when you were not able to attain full marks and general feedback to the whole class). We are happy to accommodate further feedback (e-mail the **Teaching Assistant (TA) and cc myself**)
4. **Practical 2:** Feedback from the Oracle and verbose mode of the auto-marker (you need to analyze this data yourself and is part of the learning process, i.e. understand why a test may have failed using the protocol control flow, **debugging a protocol**).
5. **Practical 3:** Online discussion forum with answers from TA and myself.
6. **Consulting times** (2 hours a week where you don't need to book a time, just turn up)
7. **Workshops:** Solutions you submit will have feedback (may be limited) because we aim to provide more discussion and feedback during workshops.



PLAGIARISM  
COLLUSION

- Acknowledge the source of any code or design you did not write or think of yourself
- Write your code without referring to or viewing other solutions



Please make it the year I  
don't have to go to  
plagiarism meetings!



### Violations to policy

- **Plagiarism**

- Using another person's ideas, designs, words or works without appropriate acknowledgment.

- **Collusion**

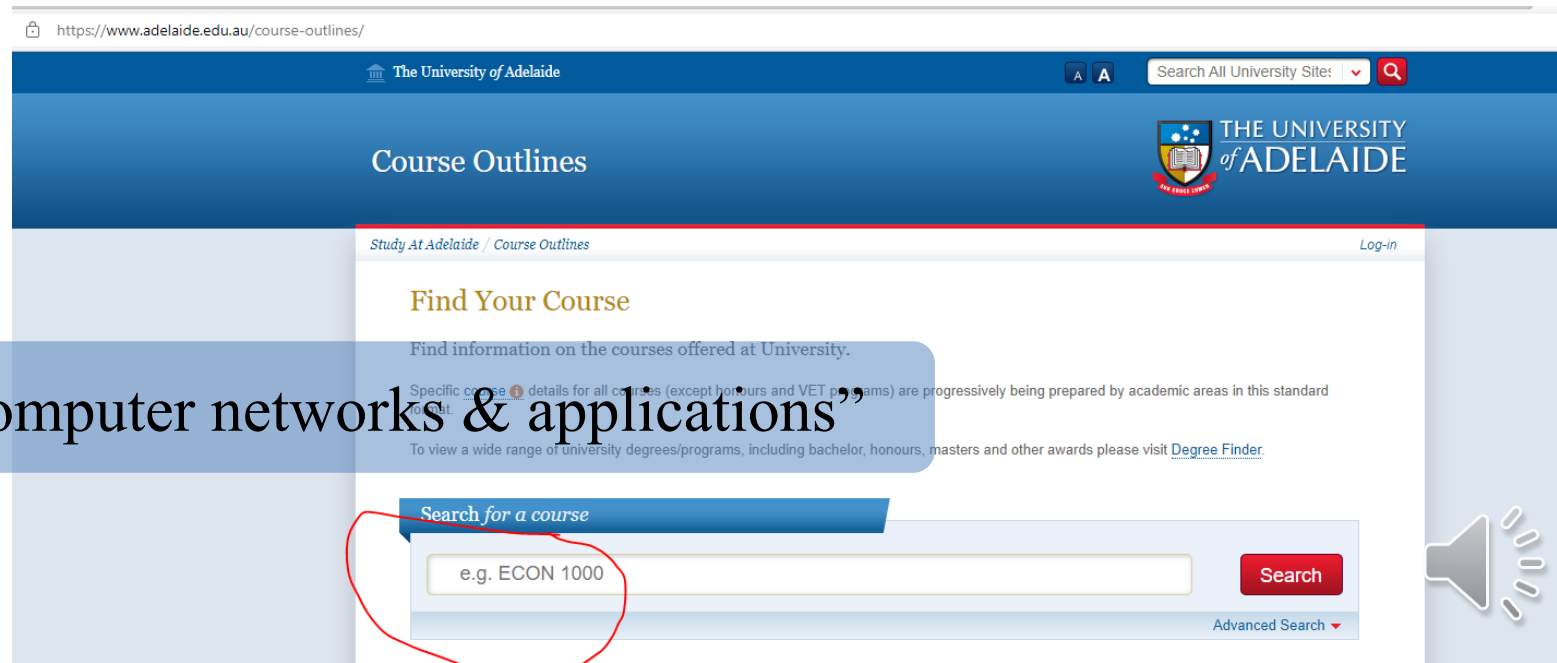
- Another person assisting in the production of an assessment submission without the express requirement, or consent, or knowledge of the **assessor**.

- 1. Do not submit any work or part thereof which is not yours.**
- 2. Do not submit any work for which you have received unfair assistance.**



# OTHER ADMINISTRATION INFORMATION SUMMARY FOR YOUR INFORMATION

Search for “computer networks & applications”



The screenshot shows the 'Course Outlines' page of The University of Adelaide. The URL in the browser is <https://www.adelaide.edu.au/course-outlines/>. The page features a blue header with the university's name and logo. Below the header, the title 'Course Outlines' is displayed. A search bar is located at the bottom of the page, with the placeholder text 'e.g. ECON 1000'. A red circle highlights the search bar. The search bar is labeled 'Search for a course' and has a 'Search' button next to it. Below the search bar, there is a link to 'Advanced Search'.

https://www.adelaide.edu.au/course-outlines/

The University of Adelaide

Search All University Site: [dropdown] [search icon]

Course Outlines

THE UNIVERSITY of ADELAIDE

Study At Adelaide / Course Outlines

Log-In

Find Your Course

Find information on the courses offered at University.

Specific course details for all courses (except honours and VET programs) are progressively being prepared by academic areas in this standard format.

To view a wide range of university degrees/programs, including bachelor, honours, masters and other awards please visit [Degree Finder](#).

Search for a course

e.g. ECON 1000

Search

Advanced Search [dropdown]





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# Repeating Students

### Repeating Students

- Students who repeat a course are expected to attempt all of the aspects of the course again. This includes making fresh attempts at all coursework assessment items.
- You may apply to the course coordinator to have your previous work counted but this is not usually granted.
- Make sure that you attend all of the lectures, do all of the work and study hard for the exam – you don't want to get stuck repeating the same course over and over.



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# Modified arrangements

# Assignment Extensions

- A student may be eligible for assignment extensions based on **medical, compassionate, extenuating** circumstances
- A student will be ineligible if their Circumstances:
  - **were avoidable** and the student had reasonable opportunity to make alternative arrangements;
  - **relate to balancing workloads** from other units of study, disciplines or faculties;
  - **were personal commitments** or events such as international travel, holidays or weddings;
  - **relate to temporary minor ailments** such as colds, minor respiratory infections, headaches or minor gastric upsets;
  - **relate to stress or anxiety** normally associated with examinations, required assessment tasks or any aspect of course work;
  - **are a result of misreading or misunderstanding** the examination timetable.



# Assignment Extensions

- For extensions, please contact the course coordinator
  - course coordinator email (some courses have course coordinator emails managed by Sue Earle)
- If you think your situation is exceptional, contact your course coordinator ASAP, who will then consult the Head of School.
- Students who deliberately submit false or fraudulent documentation may be referred to the Student Misconduct Tribunal.
- You will normally only receive an extension equivalent to the number of days covered by your documentation. Don't expect to get an extra week because you lost a day.

# Exam Information (including additional/replacement exams)

- University Examinations Site for information on Additional/Replacement exams:
  - <http://www.adelaide.edu.au/student/exams/>
- For the full policy on Modified Arrangements, see:  
<https://www.adelaide.edu.au/policies/3303>





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# Academic Integrity

# Academic Integrity

- Useful link:  
<https://www.adelaide.edu.au/student/success/academic-integrity-for-students>
- Academic integrity values
  - **Honesty** - being honest about where your ideas come from
  - **Respect** - giving credit when you use other people's ideas
  - **Responsibility** - taking ownership of your work
  - **Fairness** - treating other students and scholars fairly
  - **Trust** - doing the right thing, even when nobody is watching
  - **Courage** - standing up for what is right
- The University takes academic integrity **very seriously**. For the most serious types of misconduct students can be **suspended** or completely **excluded** from the University.

# Types of Academic Misconduct 1/2

- **Plagiarism**, where students present Work for assessment or publication that is not their own, without attribution or reference to the original source.
- **Collusion**, where students present Work as independent Work when it has in fact been produced in whole or in part with others (including persons external to the University) unless prior permission for joint or collaborative Work has been given by the Course coordinator, as specified in the Course Outline.
- **Copying**, where a student acts in such a way as to seek to gain unfair advantage or assist another student to do so.

# Types of Academic Misconduct 2/2

- **Cheating in Examinations** means engaging in dishonest practice or breaching the rules during or in relation to Examinations
- **Contract Cheating**, where a student submits completed or partially completed Work that a third party has completed for them, regardless of the relationship between the student and the third party or whether the third party is paid or unpaid. This includes the submission of work completed by an AI agent, without the explicit consent of your course coordinator.
- **Misrepresentation**, where a student presents untrue information with the intention of deceiving or misleading the assessor.
- **Solicitation**, where a student offers or gives money or any item or service to a University staff member or any other person to gain academic advantage for the student or another person.

## Case 1 (based on real past incidents from UoA)

- Ami (not her real name) is sitting her **online** and **open resource** exam. The exam asks for a definition of a key term. Ami knows that the correct definition is in her course notes so **she opens the notes and cuts and pastes the definition into her exam**. She doesn't acknowledge the course notes. She thinks: "If the question is asking for a definition, it is best to use the proper definition given in the course materials – I don't want to risk losing marks by paraphrasing or changing the definition in any way".
  - Sam (not his real name) is also sitting the same exam. When tackling the same question Sam does a quick internet search and **copies the answer directly from a website into his exam**. He thinks: "This is an online exam so I don't need to reference. Referencing is just for assignments"
-

- Students who had copied the lecture notes had not breached the policy. So Ami was found not to have committed a breach of the policy. No entry was made in the Academic Integrity Register.
  - Students who copied from the internet were found to have committed a breach (plagiarism) but this was considered to be as a result of a genuine misunderstanding of the policy. So Sam was found to have committed a breach as a result of a genuine misunderstanding of the policy. Sam lost a few marks from his exam as a penalty. This outcome was recorded on the University's Academic Integrity Register and will be considered if Sam is ever suspected of breaching the policy again in the future.
-



## Case 2

- Ali, Sasha, Kiki, Kahn, John and Lizzie (not their real names) are enrolled in the same course and need to submit a research proposal.
  - The friends decide to work together to maximise their chances of finishing the proposal correctly. They get together to discuss their proposals and research ideas and methods. Kiki has done research proposals before and finishes hers first. She shares her proposal with the others.
  - The course coordinator suspected that one proposal may have been used by the others to frame and base their own proposals (Turnitin similarity report of **22%**). The students said that they didn't understand that it isn't ok to work together.
  - Given the circumstances, the academic integrity officer decided that the students had breached the policy (collusion) but through a genuine misunderstanding. The students were allowed to resubmit the assessment. Each student's name was recorded in the Academic Integrity Register.
-

## Case 3

- Tim (not his real name) posts his assignment to an online job site.
  - Someone else who is using the site alerts UoA.
  - Tim did not have a previous record in the Academic Integrity Register.
  - The academic integrity officer found that Tim had breached the policy (contract cheating) with no genuine misunderstanding and he failed the course. His name was added to the Academic Integrity Register.
-

## Case 4

- Molly and Kane (not their real names) are taking an online exam.
  - After Molly has finished the exam Molly gets a text from Kane. He says he's finished the exam too but wants Molly to share her completed exam with him so he can compare their answers.
  - Kane actually hasn't finished the exam. He contacted Molly because he didn't know the answers.
  - Molly was upset that she was deceived by Kane. Kane was very apologetic.
  - So Molly was found to have breach of the policy (cheating in exams) but as a result of genuine misunderstanding and was penalised with a loss of 10% of the marks for the assessment.
  - Kane was found to have a second breach (with no genuine misunderstanding) and received 0% for the assessment.
-

# How to avoid plagiarism/collusion

- If you get stuck, seek help from the lecturer, tutor or prac demonstrator rather than copying from someone else.
- **Starting your work** early will help you to avoid getting stuck at the last minute.

**When in doubt, ask your lecturer.**