

NPSC1003 Integrating Indigenous Science and STEM



Curtin University

# Workshop 1

FACULTY OF SCIENCE AND ENGINEERING

Western Australia | Dubai | Malaysia | Mauritius | Singapore



# Copyright Notice

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# Acknowledgement

*We respectfully acknowledge the Elders and custodians of the Whadjuk Nyungar nation, past and present, their descendants and kin. The Curtin University Bentley Campus enjoys the privilege of being located in Whadjuk / Nyungar Boodjar (country) on the site where the Derbal Yerrigan (Swan River) and the Djarlgarra (Canning River) meet. The area is of great cultural significance and sustains the life and well being of the traditional custodians past and present.*

*As representatives of Curtin University, we are proud to honour the Nyungar people and value this place of shared learning. We recognise the impacts of colonisation on Indigenous Australians and as active participants in reconciliation, we are committed to moving forward together in a spirit of mutual honour and respect.*

**!** Aboriginal and Torres Strait Islander users of this material are advised there may be images, viewings, stories, photos and written materials of people which could be disturbing and/or of persons who are deceased.



# Kaya nyan kwerl...

Co-taught model with CAS and Science staff

Your Workshop facilitators:

Aboriginal Introductions:

- Your name, course,
- Your family, where from
- Something interesting about you?

# Unit Responsibilities

## Unit Coordinator

- Workshops and Blackboard
- Assessments, Moderation

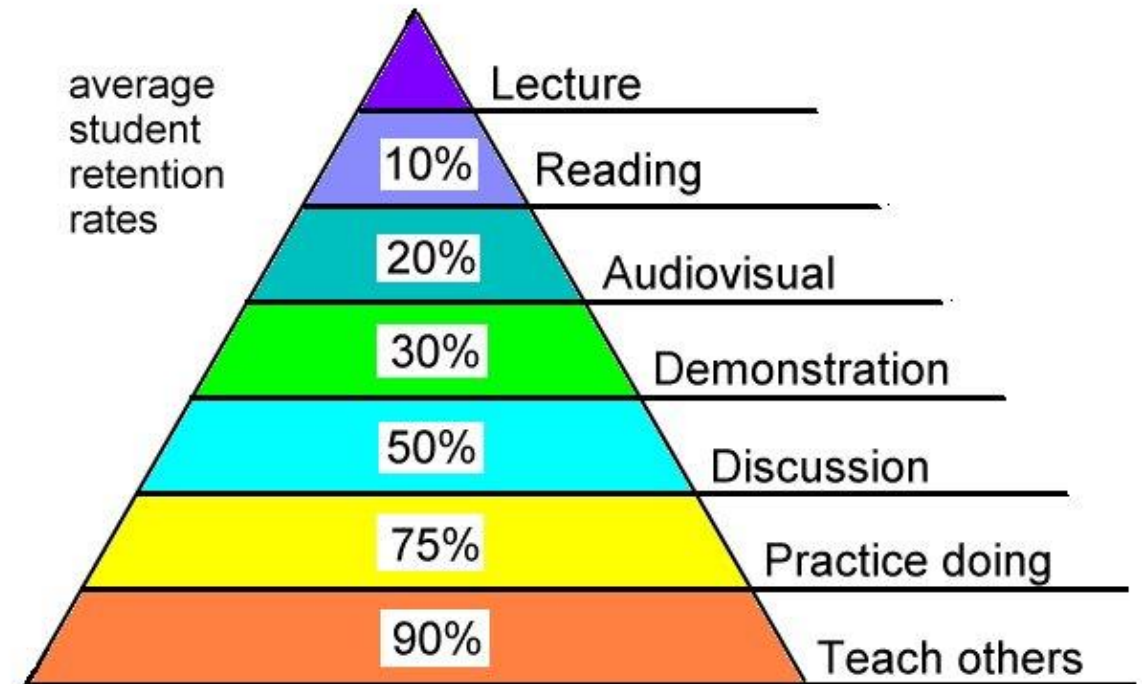
## Students

- Prepare: Do the pre-work
- Participate: Workshops are about students learning not facilitators teaching
- Produce: Submit the work required by the specified deadline
- Communicate: your ideas and keep staff and your peers informed

## Facilitators

- Guide your learning – they can't learn for you.
- Assignment marking and feedback

***How to succeed – teach someone else!***



Source: National Training Laboratories, Bethel, Maine



# Communication – PIAZZA!

Can you imagine 400 students and one Unit coordinator with everyone asking the same questions?

Post your queries to **piazza** in Blackboard.

We will always try to respond to within 24 hours

.... Except on weekends! But the whole community can contribute to solutions. So if you know the answer - go for it.

You probably won't get a response if:

- The answer to your question is easily found on Blackboard
- The answer is in the Unit Outline (check here first!)
- We choose to answer the question through a Blackboard announcement to all students.
- An enthusiastic individual has answered your question on **PIAZZA!**



# Academic Integrity

This is the Curtin designated unit for Academic Integrity

*Passing off somebody else's work as your own is Plagiarism and is NOT acceptable in any university or profession.*

# ACADEMIC INTEGRITY PROGRAM (AIP)

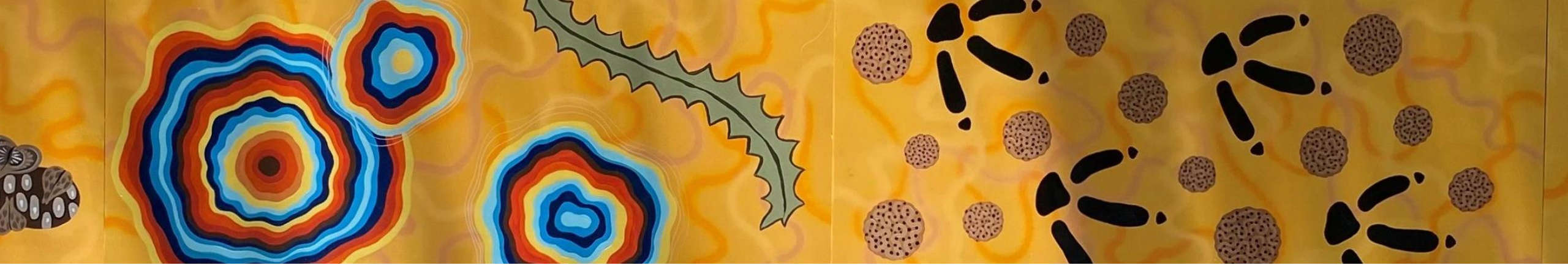
All new to course students are **required** to complete the AIP within 14 days of the start of their first study period at Curtin.

The AIP will inform students about academic integrity concepts to help them successfully navigate challenging situations.

Topics include: ethics, Curtin's values and expectations for students, referencing, plagiarism, cheating, and misconduct processes and possible outcomes.







# Assessment Tasks

## Formative Assessments

- UO QUIZ with IRIS practise
- SELL Diagnostic with IRIS
- Reflection

## Summative Assessments

Group Oral and PowerPoint presentation (30%)

Scientific Argument (35%)

Portfolio Incremental assessment (35%)

- Peer evaluation of Orals
- Paraphrasing and referencing task
- Argument Task – thesis statement or hypothesis
- Peer review of Argument
- Final reflection

# Science and Engineering Language and Literacy Program

## SELL

Discipline-specific language enrichment program;

Five focal modules that are complementary to this unit;

*Available to all students*

### **Week 2 Assessment for SELL with IRIS**

You might be either REQUIRED or RECOMMENDED to attend the SELL workshops

If you are REQUIRED to complete the workshops you will not receive a mark until you do so.





# IRIS@Curtin

## (Intelligent Remote Invigilation System)

- IRIS facilitates invigilation for online students during assessments, regardless of their location
- to ensure that students are not breaching academic integrity standards when they are taking online tests and exams.
- to ensure assessment integrity and fairness for all students.

IRIS@Curtin help



# Remember where to get help

## In-class

- This is the best time to ask for help
- Your facilitators are committed to helping you get the most out of this unit and you have them for 2 hours a week. Use that time!

## PIAZZA

- Questions about unit content and workshops Post to Piazza in Blackboard and the SciComs community can help you.
- Enquiries such as class registration, CAP plans, doctors certificates, assessment extensions [SCIENCESTudents@curtin.edu.au](mailto:SCIENCESTudents@curtin.edu.au)
- SELL Diagnostic and Modules: [SELL@curtin.edu.au](mailto:SELL@curtin.edu.au)



# Oral Assessment

In a small group (3-4) investigate the relationship between indigenous knowledge and science by exploring how scientific knowledge is encoded in totems, objects or places.

You will be allocated a group and select a topic in the workshop

- Choose a group
- Choose a topic – endangered animal from SW Australia

Email students in your group

12345678@student.curtin.edu.au



# Library Databases

## Scopus/Web of Science

- Advanced search
- Check Australian
- Filter year
- Peer reviewed/Journal Papers

## Google scholar

- Most popular rather than most relevant

## Cultural Knowledge?

- may not be found in databases
- Use Noongar keyword
- Noongah/Nyungar dictionary
- South West Land and Sea Council –  
kaartdijin  
<https://www.noongarculture.org.au/>
- KooriHistory.com – SE Australia
- Don't assume all Aboriginal cultures are identical

Check out Library workshops



# Before Next week

Complete the Unit outline Quiz

Undertake the SELL diagnostic task

Choose a topic for your Oral Assessment

Start researching!



**Justin Martin, Susan Milne and Greg Stonehouse, *NGOOK – Beehive*, stainless steel and LED lights, 386 x 140 x 140cm, Curtin University Art Collecting commissioned 2017**

‘Ngook (honey) was a prized commodity and used by the Nyungar people of Western Australia for many different purposes... Honey was one of the sweetest delights for Nyungar people. It was mixed with ground local saps, flowers and plant species and used for medicinal purposes for Nyungar people. It is a natural remedy for sores, cuts and bruises. One of the more common activities honey was used for is to create sweet drinks, which many people still practice today.’  
(taken from the Justin Martin, Susan Milne and Greg Stonehouse proposal, 2017).

Curtin University Art Collection.

*See Our Artist Tab in Blackboard*



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# THANK YOU

Make tomorrow better.