

Unit Outline

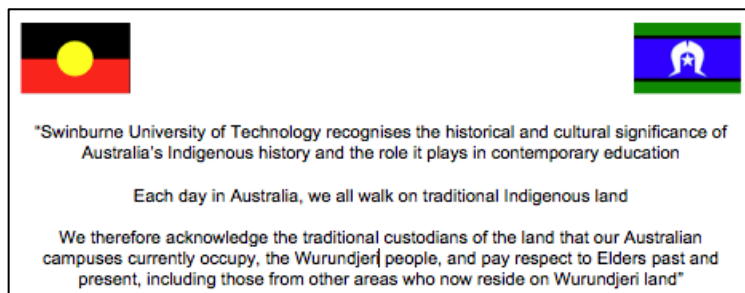
COS10025

Technology in an Indigenous Context Project

HE Semester 1 2023

Please read this Unit Outline carefully. It includes:

- PART A** Unit summary
- PART B** Your Unit in more detail
- PART C** Further information



PART A: Unit Summary

Unit Code(s)	COS10025
Unit Title	Technology in an Indigenous Context Project
Duration	One semester or equivalent
Total Contact Hours	48
Requisites:	
Pre-requisites	None
Co-requisites	
Concurrent pre-requisites	None
Anti-requisites	
Assumed knowledge	
Credit Points	12.5
Campus/Location	Hawthorn
Mode of Delivery	Blended
Assessment Summary	100% Portfolio

Aims

This unit aims to provide students with an opportunity to work on a project that will deepen their understanding of the plurality and diversity Indigenous knowledge systems, worldviews, standpoints, and culture in relation to STEM technologies. The project will have a focus on emerging technologies and the respectful blending of Western and Indigenous knowledge systems to enhance project outcomes. Students will work collaboratively in teams and will have a staff member as a 'facilitator' whilst working on the project.

Unit Learning Outcomes

Students who successfully complete this Unit should be able to:

1. Locate Indigenous knowledge systems and consider how they story the long history of technology, science, and engineering.
2. Understand the importance of, and find opportunities to, respectfully converge Western knowledge systems with Indigenous knowledge systems.
3. Apply relevant knowledge of emerging technologies to a project within an Indigenous context taking into consideration and acknowledging Indigenous histories, worldviews, standpoints, and cultures.
4. Function as an effective team member using project management tools and demonstrating professionalism and ethical behaviour.
5. Communicate within teams using appropriate verbal, visual, written and technological approaches
6. Appreciate emerging technologies in a local, global and sustainable context.

Content

- Stakeholder engagement
- Problem requirements
- Data reasoning
- Professional report writing

- Presenting
- Indigenous history/culture
- Indigenous STEM knowledge systems

PART B: Your Unit in more detail

Unit Teaching Staff

Name	Role	Phone	Email	Consultation Times
Dr Siva Chandrasekaran	Unit Convenor/ Workshop facilitator	92145346	schandrasekaran@swin.edu.au	By Email/Phone Working hours
Shannon Kilmartin-Lynch	Lecturer (Australian Indigenous Context)		Shannon.kilmartin-lynch@swin.edu.au	By Email/Phone Working hours
Dr. James Hamlyn Harris	Lecturer (Professional skills)		jhamlynharris@swin.edu.au	By Email/Phone Working hours
Dr Kaberi Naznin	Workshop Facilitator		knaznin@swin.edu.au	By Email/Phone Working hours
Dr Naveed Ali	Workshop Facilitator		nali1@swin.edu.au	By Email/Phone Working hours
Mandeep Dhindsa	Workshop Facilitator		mdhindsa@swin.edu.au	By Email/Phone Working hours
Anika Kanwal	Workshop Facilitator		akanwal@swin.edu.au	By Email/Phone Working hours

Learning and Teaching Structure

Activity	Total Hours	Hours per Week	Teaching Period Weeks
Seminars (blended)	12 hours	1 hour	Weeks 1 to 12
Facilitator Meetings (blended - to be scheduled outside the workshop)	12 hours	1 hour	Weeks 1 to 12
Workshops (blended)	24 hours	2 hours	Weeks 1 to 12

Week by Week Schedule

Week	Week Beginning	Teaching and Learning Activity		Student Task or Assessment
		Seminar	Workshop	
1	27 Feb	Introduction to Unit / History of Indigenous STEM	Introduction to the Unit & Explore Indigenous projects	
2	06 Mar	Culture and application technology in the Australian context	Formation of student teams & Understand STEM Technology	Individual Assessment: Week 1 lecture quiz/test (graded) in Canvas Team-based Assessment: Workshop reflection/activity during workshop
3	13 Mar	Culture and application technology in the Australian context continues	Cultural locations and townships &	Individual Assessment: Week 2 lecture quiz/test (graded) in Canvas

			Problems within townships	Team-based Assessment: Team-based Assessment: Workshop reflection/activity during workshop
4	20 Mar	Indigenous STEM knowledge systems and western knowledge systems	Problem Definition	Individual Assessment: Week 3 lecture quiz/test (graded) in Canvas Team-based Assessment: Workshop reflection/activity during workshop
5	27 Mar	Indigenous STEM knowledge systems and western knowledge systems continues	Selecting one concrete problem and working on five design ideas	Individual Assessment: Week 4 lecture quiz/test (graded) in Canvas Team-based Assessment: Workshop reflection/activity during workshop
6	03 Apr	Indigenous STEM knowledge systems	Discuss and finalise your design ideas and /or find other alternatives	Individual Assessment: Week 5 lecture quiz/test (graded) in Canvas Team-based Assessment: Workshop reflection/activity during workshop
7	17 Apr	Professional report writing	Justify your five different designs	Team-based Assessment: Milestone 1 – Innovation Concept (20%), due Week 7, 23:59 pm.
8	27 Apr	Stakeholder engagement (user interface/user experience)	Team debate on different design ideas	
9	01 May	Professional purpose	Finalise your design ideas	
10	08 May	Presentation	Preparation of presentation	
11	15 May	Indigenous projects	Presentation week	Team-based Assessment: Milestone 2 – Project Presentation (25%).
12	22 May	No Seminar	Team project close-off	Team-based Assessment: Milestone 3 – Project Final Report (20%), & peer assessment (5%) due week 12, 23:59pm.

Assessment

a) Assessment Overview

Tasks and Details		Weighting	Unit Learning Outcomes that this assessment task relates to	Assessment Due Date
Individual Activities (40%)	Lecture reflection Quiz	15%	ULO 1,2,3	Week 2-6

	Project report	20%	ULO 2,5,6	Week 12
	Peer assessment	5%	ULO 4,5	Week 12
Team-based Activities (60%)	Workshop Team reflection/activity	18%	ULO 3,4,5	Week 1-6
	Innovation Concept	20%	ULO 4,5,6	Week 7
	Project presentation	22%	ULO 3,4,5,6	Week 11

b) Minimum requirements to pass this Unit

To pass this unit, you must:

- (i) achieve an overall mark for the unit of 50% or more, and
- (ii) complete the project to an acceptable standard. A rubric will be used to determine if students have met the acceptable standard. The rubric is available on Canvas.

Students who do not successfully achieve hurdle requirement (ii) in full, will receive a maximum of 45% as the total mark for the unit and will not be eligible for a conceded pass.

c) Submission Requirements

Assignments and other assessments are generally submitted online through the Canvas assessment submission system which integrates with the Turnitin plagiarism checking service.

Please ensure you keep a copy of all assessments that are submitted.

In cases where a hard copy submission is required an Assessment Cover Sheet must be submitted with your assignment. The standard Assessment Cover Sheet is available from the Current Students web site.

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d) Extensions and Late Submission

Late Submissions - Unless an extension has been approved, late submissions will result in a penalty. You will be penalised 10% of the assessment's worth for each calendar day the task is late, up to a maximum of 5 days. After 5 calendar days, a zero result will be recorded.

e) Referencing

To avoid plagiarism, you are required to provide a reference whenever you include information from other sources in your work. Further details regarding plagiarism are available in Section C of this document.

Referencing conventions required for this unit are: APA or Harvard

Helpful information on referencing can be found at
<http://www.swinburne.edu.au/library/referencing/>

f) Individual Assessments

An individual assessment must be submitted in accordance with the expectation of different assessment to be submitted by due date. If the work is part of a teamwork (project) where an individual need to work on his project brief/research report/final report, an individual team member should have continued communication with the team members and attend all classes, workshops, and team meetings. In the event of longer-term illness or other serious problems involving a member of group, it is responsibility of an individual to immediately notify the Unit convenor or relevant tutor/facilitator.

g) Teamwork Guidelines

A team assignment is the collective responsibility of the entire team, and if one member is temporarily unable to contribute, the team should be able to reallocate responsibilities to keep to schedule. In the event of longer-term illness or other serious problems involving a member of the team, it is the responsibility of the other members to notify immediately the Unit Convenor or relevant facilitator.

Team submissions must be submitted with an Assignment Cover Sheet, signed by all members of the team.

All team members must be satisfied that the work has been correctly submitted. Any penalties for late submission will generally apply to all team members, not just the person who submitted.

Required Textbook(s)

No textbook is required for this unit.

Recommended Reading Materials

All recommended reading material are available on Canvass

PART C: FURTHER INFORMATION



For further information on any of the below topics, refer to Swinburne's Current Students web page <http://www.swinburne.edu.au/student/>.

Student Charter

Please familiarise yourself with Swinburne's Student Charter. The charter describes what students can reasonably expect from Swinburne in order to enjoy a quality learning experience. As students contribute to their own learning experience to that of their fellow students, the charter also defines the University's expectations of students.

Student behaviour and wellbeing

Swinburne has a range of policies and procedures that govern how students are expected to conduct themselves throughout the course of their relationship with the University. These include policies on expected standards of behaviour and conduct which cover interaction with fellow students, staff and the wider University community, in addition to following the health and safety requirements in the course of their studies and whilst using University facilities.

All students are expected to familiarise themselves with University regulations, policies and procedures and have an obligation to abide by the expected guidelines. Any student found to be in breach may be subject to relevant disciplinary processes. Some examples of relevant expected behaviours are:

- Not engaging in student misconduct
- Ensuring compliance with the University's Anti-Discrimination, Bullying and Violence and Sexual Harassment requirements
- Complying with all Swinburne occupational health and safety requirements, including following emergency and evacuation procedures and following instructions given by staff/wardens or emergency response.

In teaching areas, it is expected that students conduct themselves in a manner that is professional and not disruptive to others. In all Swinburne laboratories, there are specific safety procedures which

must be followed, such as wearing appropriate footwear and safety equipment, not acting in a manner which is dangerous or disruptive (e.g. playing computer games), and not bringing in food or drink.

Canvas

You should regularly access the Swinburne learning management system, Canvas, which is available via the Current Students webpage or <https://swinburne.instructure.com/> Canvas is updated regularly with important unit information and communications.

Communication

All communication will be via your Swinburne email address. If you access your email through a provider other than Swinburne, then it is your responsibility to ensure that your Swinburne email is redirected to your private email address.

Plagiarism

Plagiarism is the action or practice of taking and submitting or presenting the thoughts, writings or other work of someone else as though it is your own work. Plagiarism includes any of the following, without full and appropriate acknowledgment to the original source(s):

- The use of the whole or part of a computer program written by another person;
- the use, in essays or other assessable work, of the whole or part of a written work from any source including but not limited to a book, journal, newspaper article, set of lecture notes, current or past student's work, any other person's work, a website or database;
- The paraphrasing of another's work;
- The use of musical composition, audio, visual, graphic and photographic models,
- The use of realia that is objects, artefacts, costumes, models and the like.
- Plagiarism includes the submission of assessments that have been developed by another person or service through contract, tender or online writing services.
- Plagiarism also includes the preparation or production and submission or presentation of assignments or other work in conjunction with another person or other people when that work should be your own independent work. This remains plagiarism whether or not it is with the knowledge or consent of the other person or people. It should be noted that Swinburne encourages its students to talk to staff, fellow students and other people who may be able to contribute to a student's academic work but that where independent assignment is required, submitted or presented work must be the student's own.

Enabling plagiarism contributes to plagiarism and therefore will be treated as a form of plagiarism by the University. Enabling plagiarism means allowing or otherwise assisting another student to copy or otherwise plagiarise work by, for example, allowing access to a draft or completed assignment or other work.

Swinburne University use the Turnitin system that helps check for improper citations or potential plagiarism in assignments submitted electronically via Canvas. Your Unit Convenor will provide further details.

The penalties for plagiarism can be severe, ranging from a zero grade for an assessment task through to expulsion from the unit and, in the extreme, exclusion from Swinburne. Consequently, you need to avoid plagiarism by providing a reference whenever you include information from other sources in your work.

Student support

You should talk to your Unit Convenor or Student Services for information on academic support services available for Swinburne students.

Special consideration

If your studies have been adversely affected due to serious and unavoidable circumstances outside of your control (e.g. severe illness or unavoidable obligation), you may be able to apply for special consideration (SPC).

Applications for Special Consideration will be submitted via the SPC online tool normally no later than 5.00pm on the third working day after the submission/sitting date for the relevant assessment component.

Accessibility needs

Sometimes students with a disability, a mental health or medical condition or significant carer responsibilities require reasonable adjustments to enable full access to and participation in education. Your needs can be addressed by Swinburne's Accessibility Services by negotiating and distributing an 'Education Access Plan'. The plan makes recommendations to university teaching and examination staff. You must notify Accessibility Services of your disability or condition within one week after the commencement of your unit to allow the University to make reasonable adjustments.

Review of marks

An independent marker reviews all fail grades for major assessment tasks. In addition, a review of assessment is undertaken if your final result is between 45 and 49 or within 2 marks of any grade threshold.

If you are not satisfied with the result of an assessment, you can ask the Unit Convenor to review the result. Your request must be made in writing within 10 working days of receiving the result. The Unit Convenor will review your result to determine if your result is appropriate.

If you are dissatisfied with the outcomes of the review, you can lodge a formal complaint.

Feedback, complaints and suggestions

In the first instance, you may discuss any issues with your Unit Convenor. If you are dissatisfied with the outcome of the discussions with the Unit Convenor or would prefer not to deal with your Unit Convenor, then you can complete a feedback form.

Advocacy

Should you require assistance with any academic issues, University statutes, regulations, policies and procedures, you are advised to seek advice from an Independent Advocacy Officer at Swinburne Student Life (previously Swinburne Student Amenities Association (SSAA)).

For an appointment, please call 03 9214 5445 or email advocacy@swin.edu.au

For more information, please see <https://www.swinburne.edu.au/current-students/student-services-support/advocacy/>

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