

WESTERN SYDNEY
UNIVERSITY



Co-Create Microcredentials with WesternX

WESTERNX MICROCREDENTIALS

ACKNOWLEDGEMENT OF COUNTRY



Source: 'Matta: Meeting place' by Jason and Trevor Dalmarri

AGENDA



- Introduction – DVC(A)
 - The Wider Microcredential Landscape
- Western X - PVC(LF)
 - WesternX - Wrap around support for MC co-creation
 - What Makes a Successful Microcredential
 - Prof Catherine Attard, SoE/EKN
 - Prof Richard Yang, SoEDBE
 - Dr Paul Stoodley, SoM
- MC Shark Tank: Submit your EOI if you dare!

The context for Microcredentials



- **Universities Accord Interim Report**
- **The University Sector Response**
- **Government Investment**
- **Western's MC Ecosystem**

WesternX The Journey so far



Volume of Learning
from **1 hour** to **180h**

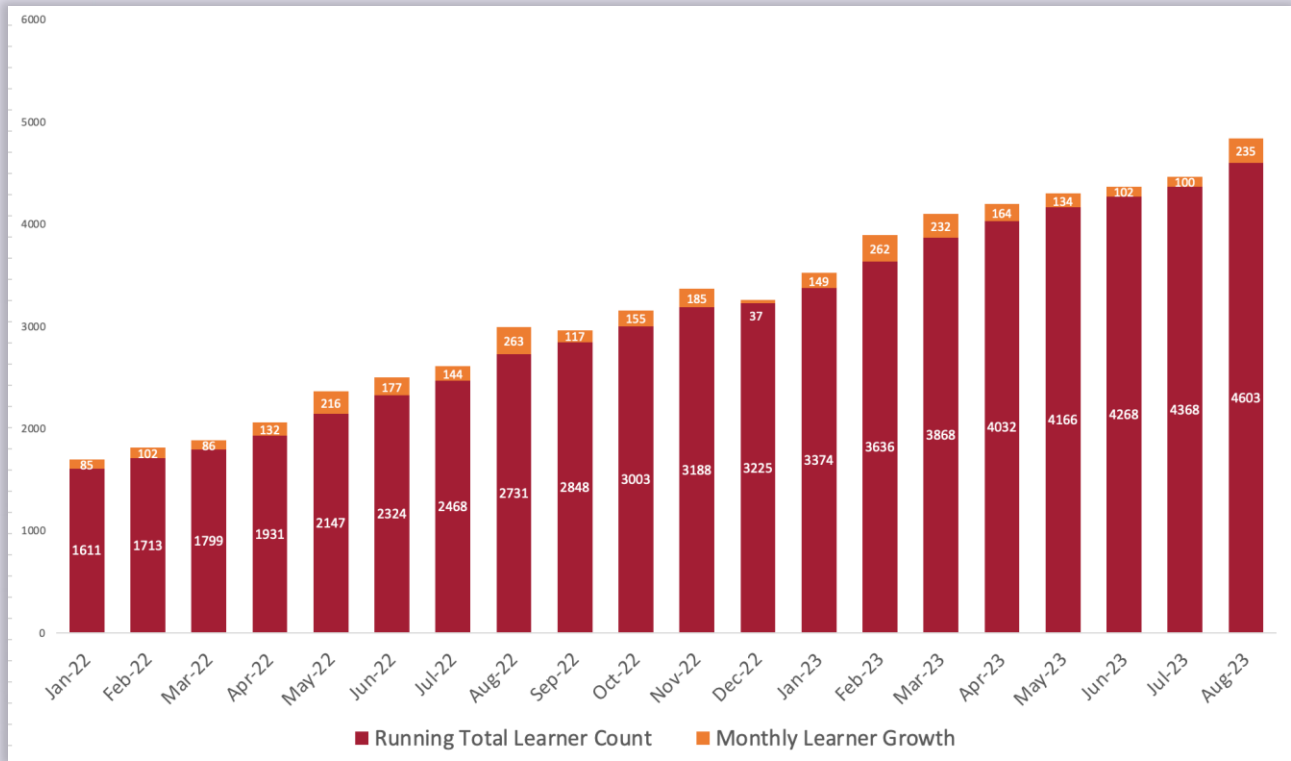
Pricing range
From **\$15** to **\$1870**

4603
Total Learners

+2135
New Learners
(past 12 months)

47 Active MCs
On OL Marketplace

31 listed on
MicroCred Seeker



WesternX Wrap around support for MC co-creation



- We enable flexible learning experiences for lifelong learners to develop the skills required for the workforce capabilities of the future
- What are the precursors of a successful microcredential?
- WesternX Support: from pre-conceptualisation to go-live
- OpenLearning: Evolving LMS with new gAI features
- Space for experimentation: Learning Neuropathology (7DX)
- Quality Assurance with initial runs with WSU students (WDEP)
- How to Create MCs

What Makes a Successful Microcredential



Online Webinar

Join us for our second webinar on microcredentials to learn and gain insights from those that have successfully created Microcredentials with WesternX for a range of different capability uplifts:

PRESENTERS



Professor Catherine Attard
Deputy Director, Centre for Educational Research



Doctor Paul Stoodly
Senior Lecturer, Cardiac Sonography



Professor Richard Yang
Professor in Smart Structures



Webinar:
Co-Create Microcredentials with WesternX

AUGUST 31, 2023
10:00 - 11:00 am
Live via Zoom

Leading Mathematics in the Primary School

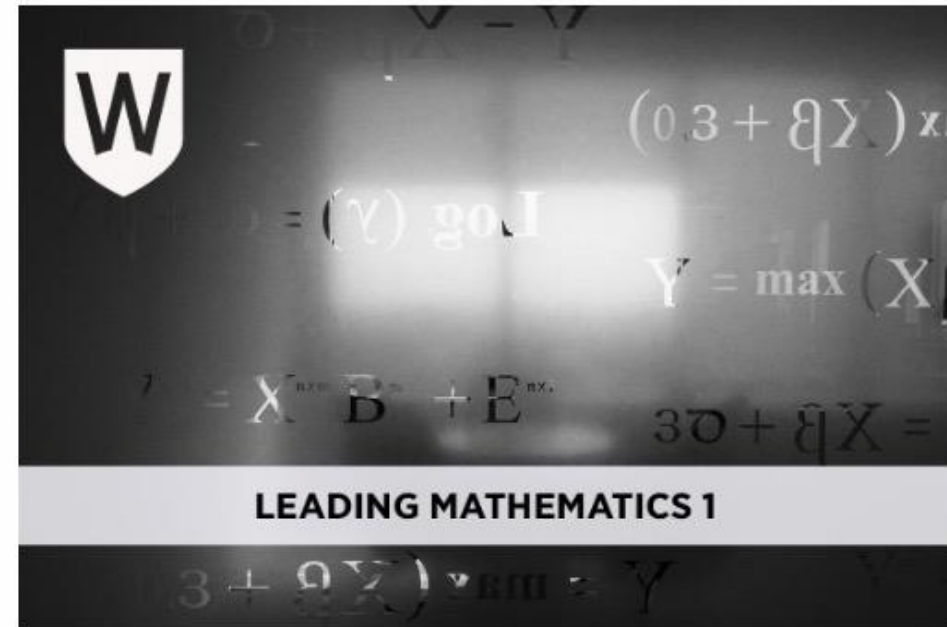
Prof Catherine Attard





- Professor, Mathematics Education
- Deputy Director, Centre for Educational Research
- School of Education



Leading mathematics 1: What do we need to know?



-  **Course type**
Short course
-  **Credential type**
Badge of completion
-  **Start date**
Start any time
-  **Duration**
30 hours
-  **Cost**
\$150 (AUD) to learn
-  **Community**
29 Learners

[Join now](#)

Explore the complex nature of mathematical knowledge for teaching and its application across schools and classrooms and how this impacts on leading mathematics.

What do you need to know to be an effective teacher of mathematics? In this course you will be introduced to the complex nature of mathematical knowledge for teaching and its application across schools and classrooms. Explore research and models on mathematical knowledge for teaching. Delve into the complexities of leading mathematics education. Reflect on mathematics leadership in primary schools and the role that middle leaders play. What does effective mathematics pedagogy look like? Explore frameworks and critically analyse a maths lesson.

Developing Microcredentials in OpenLearning

- Designing content for engagement
- Resources for online learning
- H5P tools
- Timing



Challenges

- Marketing
- Participation/engagement
- Getting the right balance between content and activity

Administrator
Class of 2023

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Activity : Reflect on the lecture

In the lecture you learnt about the attributes of specialist teachers and leadership. Complete each of the tasks below to reflect on what you learnt.

Reflect on what you learnt from the lecture. Progress: 0/4

What are the four attributes of a specialist mathematics teacher?
Choose the most correct statement from the options below.

- Having a positive attitude towards learning and teaching
- Having a positive attitude overall
- Having a positive attitude towards mathematics

Reuse Embed I am confused

Reflect on what you learnt from the lecture. Progress: 0/4

What are the four categories that Dylan Wiliam puts forth for educating young people?
Choose the most correct statement from the options below.

- Personal power
- Personal empowerment

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Class of 2023

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Activity: Effective pedagogies

In the lecture you were presented with four elements of effective pedagogy: Knowledge of learners; Positive classroom culture; Arranging for learning; and Mathematical language. Play the matching game to test your understanding of the four elements. Read and then drag and drop each statement under the appropriate effective pedagogy category.

Match the strategy to the Effective Pedagogy

Pedagogy : Knowledge of learners...	Pedagogy: Positive classroom culture	Pedagogy: Arranging for learning	Pedagogy: Mathematical language
Regular learning focused dialog with students	Showing an interest in your students' ideas, no matter how unconventional	Having a balance of independent and collaborative learning	Opportunities for students to communicate their thinking in a variety of ways (orally, written form, using a variety of representations)
Establishing an 'ethic of care'	Focusing on mathematical goals	Providing opportunities for whole class and small group discussions	Concepts and technical terms being modelled that demonstrates the subtleties that exist within the subject
Effective assessment	Having high, yet realistic expectations	Students knowing what the expectations are for learning	

Drag and drop the following into the correct categories above.

Check Answers

Introduction to Manual Composite Layup Techniques

Prof Richard Yang



- Discipline Lead, Mechanical, Mechatronic and Robotics (MMR)
- Director, Centre for Advanced Manufacturing Technology (CfAMT)
- School of Engineering, Design and Built Environment (SoEDBE)
- R.Yang@westernsydney.edu.au



0 Administrator
Class of 2023.1

35%

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View Edit Settings

Welcome
Homepage



Professor Sarah Zhang

Western Sydney University

MC Promo



Microcredential Description



Jointly developed by WSU & Quickstep through a co-design, co-delivery and co-review process

- Prof Richard Yang, Mechanical, Mechatronic and Robotic Discipline Team
- Prof Sarah Zhang, Civil and Environmental Discipline Team
- Mr Don Wright, Launch Pad Team
- George Karliychuk, Western X Program Team
- Mr Derek Warwick, Quickstep

Under the New Education and Training Model (NETM) proposed by the Western Parkland City Authority (WPCA) as a microcredential course on Advanced Manufacturing (AM) and proudly funded by the NSW Government.

- **It aims to:**
 - Provide learners an introduction to manual composite layup techniques from composite design, material selection, moulding, hand handling, curing to completed part extraction.
 - Support learners to tackle the latest advances in composite manufacturing including additive manufacturing via site visits at Western Sydney University and other industrial connections.

Microcredential Delivery



This micro-credential course is designed to:

- Run with a one-week timeframe and there are 30 contact hours for 2 WSU CPs
 - Face-to-Face sessions with small classes of 6 learners each run
 - Additional learning support using Open Learning Platform
 - Hands-on skills development at Quickstep Learning Academy, Bankstown Aerodrome
 - Lab tour at Advanced Manufacturing Precinct, Kingswood campus, Western Sydney University
 - 7 hours each day – 1.5-hour knowledge development + 5.5-hour skills development
 - 2-hour lab tour to Advanced Manufacturing Precinct, Penrith campus, WSU via Virtual Reality at Quickstep Learning Academy, Bankstown Aerodrome
- We delivered the MC four times already and will run #5 and #6 in the 2nd half year of 2023 again.



Critical Care Echocardiography

Dr Paul Stoodley



- Senior Lecturer
- School of Medicine
- Blacktown Clinical School and Research Centre
- P.Stoodley@westernsydney.edu.au



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Critical Care Echocardiography

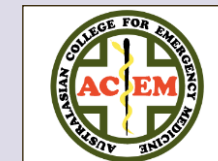
Audience

CCE is design for:

- Intensive Care Medicine Trainees
- Critical Care Medicine Trainees
- Emergency Medicine Trainees

Design

Online Content plus F2F Workshop



Paul

Home

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Module 1. Cardiac Anatomy and Function

Completed: 3 of 5

Overview

Knowledge of normal cardiac anatomy and function is essential for optimal acquisition and interpretation of echocardiographic images. This module includes four lectures and one quiz. It is recommended that you proceed

through the module starting with lecture one.

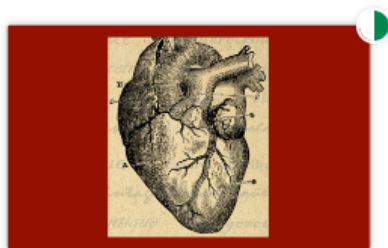
Completion

Once all lectures have been viewed, the quiz can be attempted. To complete the module, all lectures need to be viewed, and 80% or more achieved in the quiz (which can be attempted multiple times).

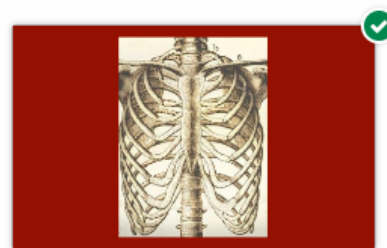
Learning Outcomes

Following the module you will be able to:

- Define normal cardiac anatomical structures.
- Define normal thoracic anatomy.
- Describe normal cardiac ventricular and cardiac valvular function.



Lecture 1. Cardiac Anatomy



Lecture 2. Surface and Imaging
Anatomy

Cardiac Physiology Fundamentals

Audience

CPF is design for:

- Medical Science Graduates
- Exercise Science Graduates
- Coronary Care Nurse

Design

Online Content plus F2F Workshop

Partners

- Royal North Shore Hospital
- Blacktown District Hospital



MC Shark Tank: October 23



MC Shark Tank: October 23 6 Hassell St, Parramatta





Q & A

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