



# EDST8650

## Design of Technology-Enhanced Learning

Session 2, In person-scheduled-weekday, North Ryde 2026

*Macquarie School of Education*

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#### Disclaimer

Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.

## General Information

Unit convenor and teaching staff

Convenor, Lecturer

Matt Bower

[matt.bower@mq.edu.au](mailto:matt.bower@mq.edu.au)

Tuesday 4-5pm online by appointment

Tutor

Olga Kozar

[olga.kozar@mq.edu.au](mailto:olga.kozar@mq.edu.au)

By appointment

Credit points

10

Prerequisites

Admission to MEd or GradCertEdS or MEdLead or MHed or GradCertHEd or MEChild or GradCertEChild or MTeach(0-5) or GradCertClinEdSim or MIndigenousEd or GradDipIndigenousEd or GradDipChildLit or MChildLit or MTeach(Prim) or MTeach(Sec)

Corequisites

Co-badged status

Unit description

This unit explores design, implementation and evaluation issues relating to the use of technology in education. It investigates how current and emerging technologies may be used to develop learners' capabilities such as critical thinking, creative thinking, problem solving, and collaborative skills. It provides opportunities to consider theory in relation to practice and encourages experimentation as well as reflection upon pedagogical approaches.

## Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

## Learning Outcomes

On successful completion of this unit, you will be able to:

**ULO1:** Integrate contemporary technologies effectively into professional teaching practices.

**ULO2:** Analyse a range of contemporary technologies and critically evaluate their potentials for application to specific and complex educational contexts.

**ULO3:** Evaluate technology-enhanced learning designs based on appropriate theoretical frameworks and analysis of contemporary technology capabilities.

**ULO4:** Critically evaluate and justify technology selection and design decisions for complex contexts with reference to current scholarly commentary, research and theory relating to educational technology usage.

**ULO5:** Critically examine how digital technologies impact on our social, cultural, professional and educational lives based on appropriate sources of contemporary evidence.

**ULO6:** Model positive attitudes and social behaviours relating to the integration of technology within teaching and learning, including effective participation in discursive processes.

## General Assessment Information

### Detailed information About Assessment Tasks

More detailed information about assessment tasks can be provided on your iLearn site including the rubric/marking scheme, detailed instructions, etc.

### General Submission Information

All written assessments must be submitted electronically. Please format assessments using 12-point font and 1.5 spacing. Submissions must meet the required file type and formatting specifications outlined in the assessment guidelines. If you are unsure about the file format or have technical difficulties, it is your responsibility to seek assistance before the submission deadline. Students should be careful to check that they submit the correct file for an assessment as no re-submissions will be accepted after the due date and time, including instances where students upload an incorrect file. It is not the responsibility of unit staff to contact students who have failed to submit assessments. If you have any missing items of assessment, it is your responsibility to contact the unit convenor.

Turnitin plagiarism detection software is used to check all written assessments. It is the responsibility of all students to ensure that their submitted work is in a format compatible with Turnitin software for plagiarism checking. Students can use Turnitin's Originality Report as a learning tool to improve their academic writing if this option is made available in the unit.

Word limits are strictly applied, with + or – 10% applicable. Work above the word limit will not be marked.

### Academic Integrity

Students should be aware of and apply the University policy on academic integrity (see: <https://policies.mq.edu.au/document/view.php?id=3>).

## **Artificial Intelligence**

Please see the following information about Artificial Intelligence in learning and teaching:

<https://students.mq.edu.au/study/assessment-exams/assessments/ai-and-assessment>

<https://policies.mq.edu.au/document/view.php?id=394>

## **Special Consideration / Late Penalties**

Unless a Special Consideration request has been submitted and approved, a 5% penalty (of the total possible mark) will be applied each day to late submissions, up until the 7th calendar day (including weekends). After the 7th day, a mark of '0' (zero) will be awarded even if the assessment is submitted. Submission time for all written assessments is set at 11.55pm. A 1-hour grace period is provided to students who experience a technical issue.

*Important to note:*

Late submission of time sensitive tasks (such as tests/exams, performance assessments/presentations, scheduled practical assessments/labs) will be addressed by the unit convenor in a Special consideration application. Students should not request an informal arrangement from their tutor, lecturer or Unit Convenor (or equivalent).

Where an application for Special Consideration is approved and the outcome is an extension to the due date of a task, submissions that are received after the new due date will be subject to late penalties that are calculated from the new due date. This only applies where the outcome is an extension to the due date – see the [Special Consideration Policy](#) for a schedule of all possible outcomes.

A Special Consideration outcome may result in a new question or topic.

Applications must be made via [Service Connect](#).

## **University Policy on Grading**

Assignments will be awarded grades ranging from HD to F according to guidelines set out in the [University's Grading System](#) and [University Assessment Policy](#).

To attain a pass or higher grade in Professional Experience a student must obtain a satisfactory in both the Professional Experience component and a pass or higher grade in the academic component. For Professional Experience units the Professional Experience Evaluation Report is marked as Satisfactory or Unsatisfactory. The Macquarie Teaching Performance Assessment (MQTPA - in final WIL/ PEx units) is marked as Not met, Met or Exceeds.

## **Results**

Results shown in iLearn, or released directly by your Unit Convenor, are not confirmed because they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit [Service Connect](#).

## **Withdrawing from this unit**

If you are considering withdrawing from this unit, please seek academic advice via [Service Connect](#) before doing so as this unit may be a co-requisite or prerequisite for units in the following sessions and may impact your course progression.

## Assessment Tasks

| Name                             | Weighting | Hurdle | Due        | Groupwork/Individual | Short Extension | AI Approach |
|----------------------------------|-----------|--------|------------|----------------------|-----------------|-------------|
| <a href="#">ePortfolio</a>       | 50%       | No     | 26/10/2026 | Individual           | Yes             | Open        |
| <a href="#">Forum Discussion</a> | 50%       | No     | 06/09/2026 | Individual           | Yes             | Open        |

### ePortfolio

Assessment Type <sup>1</sup>: Portfolio

Indicative Time on Task <sup>2</sup>: 50 hours

Due: **26/10/2026**

Weighting: **50%**

Groupwork/Individual: Individual

Short extension <sup>3</sup>: Yes

AI Approach: Open

You will keep an e-portfolio of your learning in the form of posts in a blog on the technologies, pedagogies and technology-enhanced learning designs discussed in the unit. The fortnightly posts should each be approximately 400 words (five in total). These will be synthesised into a final piece of extended writing. See the unit website for further details including the assessment rubric.

On successful completion you will be able to:

- Integrate contemporary technologies effectively into professional teaching practices.
- Analyse a range of contemporary technologies and critically evaluate their potentials for application to specific and complex educational contexts.
- Evaluate technology-enhanced learning designs based on appropriate theoretical frameworks and analysis of contemporary technology capabilities.
- Critically evaluate and justify technology selection and design decisions for complex contexts with reference to current scholarly commentary, research and theory relating to educational technology usage.
- Critically examine how digital technologies impact on our social, cultural, professional and educational lives based on appropriate sources of contemporary evidence.
- Model positive attitudes and social behaviours relating to the integration of technology within teaching and learning, including effective participation in discursive processes.

## Forum Discussion

Assessment Type <sup>1</sup>: Reflection task

Indicative Time on Task <sup>2</sup>: 50 hours

Due: **06/09/2026**

Weighting: **50%**

Groupwork/Individual: Individual

Short extension <sup>3</sup>: Yes

AI Approach: Open

Students will critically engage in discussion topics relevant to the unit, making a 400 word post each fortnight across ten weeks. See the unit website for further details including the assessment rubric.

On successful completion you will be able to:

- Integrate contemporary technologies effectively into professional teaching practices.
- Analyse a range of contemporary technologies and critically evaluate their potentials for application to specific and complex educational contexts.
- Critically examine how digital technologies impact on our social, cultural, professional and educational lives based on appropriate sources of contemporary evidence.
- Model positive attitudes and social behaviours relating to the integration of technology within teaching and learning, including effective participation in discursive processes.

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<sup>1</sup> If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- [Academic Success](#) for academic skills support.

<sup>2</sup> Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation.

<sup>3</sup> An automatic short extension is available for some assessments. Apply through the [Service Connect Portal](#).

## Delivery and Resources

### Unit Organisation

This is a ten credit point unit run over a standard session. See the Unit Schedule below for all teaching weeks.

**Weekly class (hybrid)** - Tuesday 5pm - 6pm (see iLearn for Zoom link). The classes are designed to be interactive as well as informative, and to assist you to perform well in your

assessment tasks. If you are unable to attend a lecture then the ECHO360 recording will be made available.

## Readings

The readings for each week are listed towards the top of each topic section on the iLearn unit website. The readings are available for download via the Leganto block on the right hand side of the iLearn website.

## Information about the unit iLearn site

This unit has a full web presence through iLearn. Information for students about access to the online component of this unit is available at <https://ilearn.mq.edu.au/login/index.php>. You will need to enter your student username and password.

Please do NOT contact the Unit Convenor regarding iLearn technical help. Assistance is available from IT Helpdesk: via email [onehelp@mq.edu.au](mailto:onehelp@mq.edu.au) or Ph: 9850 4357 or 1800 67 4357. On Campus: Ground floor at 18 Wally's Walk.

The iLearn website will contain links to all resources that you need to complete this unit.

## Unit Schedule

| Week Commencing             | Topics                                                                                                                                                         |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Week 1</b><br>(27/07/26) | Introduction to Technology in Secondary Education<br>Technology as an educational imperative<br>The Technology Pedagogy and Content Model and its implications |
| <b>Week 2</b><br>(03/08/26) | Pedagogies of Technology-Enhanced Learning                                                                                                                     |
| <b>Week 3</b><br>(10/08/26) | Technology Affordances and Multimedia Learning Effects                                                                                                         |
| <b>Week 4</b><br>(17/08/26) | Representing and Sharing Content Using Technology                                                                                                              |
| <b>Week 5</b><br>(24/08/26) | Design Thinking and Learning Design                                                                                                                            |
| <b>Week 6</b><br>(31/08/26) | Designing for Learning Using Web-based Technologies                                                                                                            |
| <b>Week 7</b><br>(07/09/26) | Designing for Learning using Multimedia                                                                                                                        |

|                                               |                                                                                                                                                           |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Week 8</b><br>(14/09/26)                   | Designing for Learning Using Generative Artificial Intelligence                                                                                           |
| <b>Mid Session Break Week 1</b><br>(21/09/26) | <i>No class</i>                                                                                                                                           |
| <b>Mid Session Break Week 2</b><br>(28/09/26) | <i>No class</i>                                                                                                                                           |
| <b>Week 9</b><br>(05/10/26)                   | Designing for Learning using Augmented and Virtual Reality                                                                                                |
| <b>Week 10</b><br>(12/10/26)                  | Abstracting Technology-Enhanced Learning Design Principles<br>Conclusions and Future Directions for Educational Technology<br>Unit summary and debriefing |
| <b>Week 11</b><br>(19/10/26)                  | <i>No class</i>                                                                                                                                           |
| <b>Week 12</b><br>(26/10/26)                  | <i>No class</i>                                                                                                                                           |
| <b>Week 13</b><br>(02/11/26)                  | <i>No class</i>                                                                                                                                           |

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Assessment Procedure](#)
- [Complaints Resolution Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

Students seeking more policy resources can visit [Student Policies \(https://students.mq.edu.au/su\)](https://students.mq.edu.au/su)

[upport/study/policies](#)). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit [Policy Central](#) (<https://policies.mq.edu.au>) and use the [search tool](#).

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

## Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit [connect.mq.edu.au](https://connect.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## Academic Integrity

At Macquarie, we believe [academic integrity](#) – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free [online writing and maths support](#), [academic skills development](#) and [wellbeing consultations](#).

## Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

## Academic Success

[Academic Success](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Ask a Study Coach](#)
- [Access StudyWISE](#)
- [Upload an assignment to Studiosity](#)
- [Complete the Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

## Student Services and Support

Macquarie University offers a range of [Student Support Services](#) including:

- [IT Support](#)
- [Accessibility and disability support](#) with study
- Mental health [support](#)
- [Safety support](#) to respond to bullying, harassment, sexual harassment and sexual assault
- [Social support including information about finances, tenancy and legal issues](#)
- [Student Advocacy](#) provides independent advice on MQ policies, procedures, and processes

## Student Enquiries

Got a question? Ask us via the [Service Connect Portal](#), or contact [Service Connect](#).

## IT Help

For help with University computer systems and technology, visit <https://students.mq.edu.au/support/technology/service-desk>.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

## School of Education Procedures

In addition, the following policies and procedures for the Macquarie School of Education apply to this unit.

### Communication

It is the student's responsibility to check all electronic communication on a weekly basis. Communication may occur via:

- Official MQ Student Email Address
- The Dialogue function on iLearn
- Other iLearn communication functions

## Changes from Previous Offering

The topic content has been updated to reflect changes in the educational technology field.

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Unit information based on version 2026.03 of the [Handbook](#)