



# EDUC261

## Information and Communication Technologies and Education

S1 Day 2017

*Department of Educational Studies*

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#### **Disclaimer**

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## General Information

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Co-convenor and Lecturer

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TBA

Credit points

3

Prerequisites

(12cp at 100 level or above) or EDUC105 or EDUC106 or EDUC107

Corequisites

Co-badged status

### Unit description

This unit considers ways in which information and communication technology is changing education. It is particularly concerned with issues related to the use of technology in the classroom: how to successfully select and apply learning technologies to achieve intended learning outcomes; the new literacies that educational technologies create; and appropriate pedagogies for the contemporary global classroom. Practical application of these understandings is developed through a series of skills-based tutorials that focus on how to effectively design learning tasks using the contemporary technological approaches being discussed.

## 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:

Perform basic contemporary ICT related tasks using computer software/hardware and the internet (for instance, creating accounts, searching for information, uploading files, posting data)

Describe a range of contemporary ICTs and critically evaluate their potential for educational purposes

Develop ICT-based learning designs based on appropriate selection and use of contemporary educational technologies

Critically evaluate and justify technology selection and design decisions with reference to current scholarly commentary, research and theory in pedagogy regarding ICTs in educational contexts

Explain in a broad sense how ICTs impact on our social, cultural and educational lives

Model positive attitudes and social behaviours relating to the integration of ICTs within teaching and learning, including effective participation in groupwork processes.

## General Assessment Information

It is important to check the EDUC261 unit website and student email regularly as assessment clarifications may be announced and it will be assumed all students have read them. The following requirements apply to assessment tasks:

1. The Quiz Questions Task is to be completed via the Peerwise website (link available from the unit website).
2. The Moodle Module Task is to be submitted via the Turnitin assignment drop-box

available from the unit website. The name of your assignment file should include your full name – for instance MattBowerTask2.doc .

3. Extensions of time for the submission of the assignment will be granted only in special circumstances. Applications for such extensions must be made in accordance with the Macquarie University Disruptions to Study Policy (see [http://www.mq.edu.au/policy/docs/disruption\\_studies/policy.html](http://www.mq.edu.au/policy/docs/disruption_studies/policy.html)). In particular, all applications for special consideration need to be made online via Ask (<http://ask.mq.edu.au>). The Professional Authority Form (PAF) is the officially required documentation, which must be completed by a registered health professional or professional within Macquarie University Campus Wellbeing and Support Services. A copy of the PAF is available online: [http://www.mq.edu.au/policy/docs/disruption\\_studies/Form\\_Disruption\\_to\\_Studies\\_PAF.pdf](http://www.mq.edu.au/policy/docs/disruption_studies/Form_Disruption_to_Studies_PAF.pdf).
4. Late assignments will be penalised at a rate of 5% of the maximum mark for an assignment for each day it is late. The late penalty does not apply when an extension of time has been granted.
5. It should be noted that late assignments cannot be accepted for grading after marked assignments have been returned.
6. Students are responsible for periodic back up of any digital work during the creation of an assignment. In case of system failure students will be provided with reasonable time compensation commensurate with the amount of time that the system was down. All students must keep a digital copy of their assignments so that in case of system failure the assignment can be resubmitted.
7. Students should keep strictly within the stated length or word limit, and students may be penalised for exceeding this limit. Reference lists are not included in the word count. Appendices are not included in the word count, though it is at the marker's discretion as to whether information in appendices is taken into account for determining grades so please ensure all essential information is included in the main body of the submission.
8. The Department of Educational Studies Referencing Procedures must be adopted. These requirements are based on the APA style. Online guides are provided via the unit website to support students with their referencing.
9. Assignment feedback will be provided on a marked up version of the assignment file. Feedback will include the assessment of performance in relation to the assignment criteria as well as qualitative feedback in the form of comments. Overall student performance on assignments will be reported using a grade.
10. If you wish to appeal against your grade you must first contact the original marker within one week of a marked assignment being returned. If you remain concerned you should

arrange to meet with a unit convenor.

11. It is particularly important that students note that by submitting their assignment they are acknowledging that their work is original. Remember assignments must be your own work. Plagiarism is a serious offense.
12. Feedback on task performance will be provided via the Gradebook in iLearn. Additionally, feedback for the Task 2 Moodle Module will be provided through Turnitin in the form of performance in relation to the assignment criteria, as well as qualitative feedback in the form of comments. Overall student performance on assignments will be reported using a grade.

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#"><u>Quiz Questions</u></a>	10%	No	11:55pm Friday 26th May 2017
<a href="#"><u>Moodle module</u></a>	40%	No	11:55pm Sunday 28th May 2017
<a href="#"><u>Examination</u></a>	40%	No	In tutorial classes in Week 13
<a href="#"><u>Tutorial Tasks</u></a>	10%	No	11:55pm Friday 2nd June 2017

### Quiz Questions

Due: **11:55pm Friday 26th May 2017**

Weighting: **10%**

Students are to compose five multiple choice questions throughout the session. The questions should be based upon the content of EDUC261 lectures, readings and tutorials. As well, students are required to answer the questions composed by other students and provide feedback to them about the quality of their questions. Students will be assessed on their ability to author questions, answer questions, and provide high quality feedback to their peers. Students are expected to complete this task regularly throughout the session (at least fortnightly). Marks may deducted for irregular completion (or awarded for regular completion). Further details about this task will be provided in tutorials and through iLearn.

On successful completion you will be able to:

- Describe a range of contemporary ICTs and critically evaluate their potential for educational purposes
- Explain in a broad sense how ICTs impact on our social, cultural and educational lives
- Model positive attitudes and social behaviours relating to the integration of ICTs within teaching and learning, including effective participation in groupwork processes.

## Moodle module

Due: **11:55pm Sunday 28th May 2017**

Weighting: **40%**

In groups of three or sometimes two (tutors to organise groups), students are to design and develop a module of work in Moodle (tutors will setup blank Moodle templates). The lessons should be based upon an Australian syllabus or NSW Board of Studies Teaching Evaluation and Standards (BOSTES) syllabus. The lesson can relate to one or more outcomes. Students also need to provide a written justification of their designs, and a critical reflection upon their group work processes. Further details about this task will be provided in tutorials and through iLearn.

On successful completion you will be able to:

- Perform basic contemporary ICT related tasks using computer software/hardware and the internet (for instance, creating accounts, searching for information, uploading files, posting data)
- Develop ICT-based learning designs based on appropriate selection and use of contemporary educational technologies
- Critically evaluate and justify technology selection and design decisions with reference to current scholarly commentary, research and theory in pedagogy regarding ICTs in educational contexts
- Model positive attitudes and social behaviours relating to the integration of ICTs within teaching and learning, including effective participation in groupwork processes.

## Examination

Due: **In tutorial classes in Week 13**

Weighting: **40%**

The rationale for the final examination is to assess whether students can synthesise and articulate the concepts addressed in the unit. This examination will be held during normal tutorial class time in Week 13. Students will be required to answer ten multiple choice questions and one essay question. *Essay responses need to draw upon the lectures, tutorials and readings to substantiate arguments.* Further details about this task will be provided in tutorials and through iLearn.

On successful completion you will be able to:

- Describe a range of contemporary ICTs and critically evaluate their potential for educational purposes
- Critically evaluate and justify technology selection and design decisions with reference to current scholarly commentary, research and theory in pedagogy regarding ICTs in

educational contexts

- Explain in a broad sense how ICTs impact on our social, cultural and educational lives

## Tutorial Tasks

Due: **11:55pm Friday 2nd June 2017**

Weighting: **10%**

Each week students are required to complete activities in tutorial classes. Tutors will specify the activities and assess their completion. Further details about this task will be provided in tutorials and through iLearn.

On successful completion you will be able to:

- Perform basic contemporary ICT related tasks using computer software/hardware and the internet (for instance, creating accounts, searching for information, uploading files, posting data)
- Develop ICT-based learning designs based on appropriate selection and use of contemporary educational technologies
- Critically evaluate and justify technology selection and design decisions with reference to current scholarly commentary, research and theory in pedagogy regarding ICTs in educational contexts
- Model positive attitudes and social behaviours relating to the integration of ICTs within teaching and learning, including effective participation in groupwork processes.

## Delivery and Resources

### Unit Description

This unit considers ways in which Information and Communication Technology is changing education. It is particularly concerned with issues related to the use of technology in the classroom – how to successfully select and apply learning technologies to achieve intended learning outcomes, the new literacies that educational technologies create, and appropriate pedagogies for the contemporary global classroom. Practical application of these understandings is developed through a series of skills-based workshops which focus on how to use the contemporary technological approaches being discussed.

We welcome you to *EDUC261: Information and Communications Technologies and Education* and hope it makes a significant contribution to your learning.

### Unit Organisation

This is a three credit point unit run over a 13 week semester. Note that there are no lecture or tutorial classes in the two weeks following the mid-semester break so that education students can complete their in-school block practicum experience. In other weeks there is a one hour lecture and a two hour tutorial.

## Lecture

Monday 2pm - 3pm in W5AT2

## Weekly Tutorial Schedule

Tutorial Class A: Monday, 4pm - 6pm, in C5A204

Tutorial Class B: Tuesday, 9am - 11am, in C5A204

Tutorial Class C: Tuesday, 11am - 1pm, in C5A204

Tutorial Class D: Tuesday, 2pm - 4pm, in C5A204

Tutorial Class E: Wednesday, 9am - 11am, in C5A204

Tutorial Class F: Wednesday, 11am - 1pm, in C5A204

Tutorial Class G: Wednesday, 1pm - 3pm, in C5A204

Students must attend the tutorials for which they have enrolled. This is because students work at a computer during these sessions and there are a limited number of computers available. Students are expected to attend all the tutorials.

Activities completed during tutorials are essential for building the core knowledge and/or skills required to demonstrate the learning outcomes of this unit (as assessed through the Task 4 Tutorial Activities). In order to satisfactorily complete the Task 4 Tutorial Activities students will need to:

- prepare for the tutorial by completing the readings and lecture
- attend the tutorial
- participate in workshop discussions
- complete the workshop activities.

You are required to retain all documentation related to absences. This documentation needs to be presented to your tutor or the unit convenor on request. If sufficient documentation is provided in the case of a tutorial absence then tutors may choose to prescribe activities for you to complete in order for you to demonstrate accomplishment of the tutorial outcomes. If you experience serious and unavoidable disruption you should submit a “disruption to studies” request through [ask.mq.edu.au](http://ask.mq.edu.au) (see below).

## Textbook

There is no textbook for this unit. Readings and resources will be made available online through the unit website.

## Copyright Issues

Copyright rules apply to the use of materials taken from other sources. There are images you can use in the development of your assignments without needing to obtain copyright permission. Links to sites that supply copyright free images will be suggested in your tutorials, or you can do a search for them yourselves (Creative Commons). It is essential that you obtain copyright



permission for any images you obtain from other web sites or scan from books. You, and the University, are open to prosecution if you post images taken from other sources without permission. If you particularly need to use material from a website/book, most book publishers and sources of web pages will provide copyright permission if you contact them to ask for permission indicating the use is for educational purposes and not for profit - just clearly indicate that it is only being used for local educational purposes.

## Technology Use and Requirements

### Accessing and using the Unit Website

The EDUC261 unit website is available from the Macquarie University iLearn system available at: <http://ilearn.mq.edu.au>.

To access the site students will need to use their student username and password to log in and then choose EDUC261 from My Online Units menu. Please do NOT contact the Unit Convenor regarding iLearn technical support. CONTACT the Macquarie University Library Student IT Help Desk. Phone 9850 4357. Email [support@library.mq.edu.au](mailto:support@library.mq.edu.au) .

### Software and Hardware

EDUC261's website has been designed for access by standard Internet technologies, so most common contemporary operating systems and browsers can be used. The website should be able to be accessed using Macintosh, Windows, or Linux based operating systems. Firefox, Chrome and Internet Explorer are the recommended web browsers for this subject.

### Navigation

Once you have reached the website all you need to do is follow the text and image links. Please take some time to explore the unit website and orient yourself with the features and resources. Descriptions of some of these are provided below.

## Website Features

### Unit Outline

You can download and then either view or print an exact copy of the Unit Outline from the link provided at the top of the unit website. The outline is in PDF format. If you cannot view the downloaded file then you may need to install the free Adobe Acrobat Reader software available from <http://get.adobe.com/uk/reader/>.

### iLecture

Recordings of all lectures will be made available online using the ilecture ECHO360 system. One option allows you to listen to the lecture in "streaming mode" the other to "download" the lecture and then listen to it. The disadvantage of streaming is that the sound files are very large and they can eventually fill your hard disk. When you stream the file it is not saved on your computer. By downloading the file you can keep a permanent copy of the lecture on your computer and listen to it again without having to reconnect to the Internet.

## Teacher Education Learning Lab (TEL Lab)

All your tutorials will be held in the TEL Lab. This is a facility for Education students at Macquarie University and is located in C5A201, C5A204 and C5A210. The TEL Lab supports the use of technology as appropriate to our schools. The labs provide a student work area and venue for tutorials. The computers have a variety of educational software and full Internet access.

Students are welcome to use the computers and software provided that the room is not being used by lecturers for a tutorial or workshop. Notices are placed near the Centre door to indicate opening hours and computer room availability.

## Training Support

In order to successfully complete the EDUC261 workshops students need to ensure they have a reasonable level of competence in ICTs and Information Literacy skills. You should be able to operate a computer, complete basic word processing tasks, and use a web-browser to search for information, complete forms, and transfer files. If you feel uncertain about your competency levels it is your responsibility to undertake training to acquire or improve these skills as soon as possible as they will be assumed in the workshops. Options include:

### Units of study

The following two units offered in the Faculty of Science develop technological skills:

ISYS100 – IT and Society (Planet Unit)

INFO104 – International Computer Driving Licence (Semester 2 only).

### Library training

The library offers a range of face-to-face and online workshops to support the development of technological skills. For more details refer to the Macquarie University library website ([http://www.mq.edu.au/on\\_campus/library/](http://www.mq.edu.au/on_campus/library/)) under 'Training'.

### General IT Support and Troubleshooting

For support with access to wireless and other general technology matters, please contact the Macquarie University Library Student IT Help Desk (Phone: 9850 4357; Email: [support@mq.edu.au](mailto:support@mq.edu.au)).

## Research studies

From time to time it is useful to study how students use digital technologies in order to better understand their effectiveness for teaching and learning. To this extent studies are sometimes conducted that relate to student activities in EDUC261. If this is the case then you will be provided with full notice about the nature of the study, and will be able to indicate whether or not you want to participate. Whether or not you decide to participate will in no way affect your grades, and if the results of any analysis are published then your identity will in no way be revealed. You may also withdraw from a study at any time without consequence. If you have any complaints or reservations about any ethical aspect of your participation in this research, you

may contact the Committee through the Research Ethics Officer (telephone [02] 9850 7854, fax [02] 9850 8799, email: [ethics@mq.edu.au](mailto:ethics@mq.edu.au)). Any complaint you make will be treated in confidence and investigated, and you will be informed of the outcome.

## Unit Schedule

Week Commencing	Lectures	Tutorial Content
Week 1 (27/02/17)	Introduction to ICT in Education  Technology as an educational imperative  The Technology Pedagogy and Content Model and its implications)	Intro to unit and technology platforms  Initial analysis of technologies & their educational implications  Introduction to assessment Task 1
Week 2 (06/03/17)	Pedagogies of Technology-Enhanced Learning	Analysing pedagogies of technology-enhanced learning  Evaluating Moodle modules
Week 3 (13/03/17)	Technology Affordances and Multimedia Learning Effects	Introduction to Learning Management System authoring (Moodle)
Week 4 (20/03/17)	The Representation and Sharing of Content	Learning objects  Sharing and reuse of content (copyright & Creative Commons)  Assessment using technology
Week 5 (27/03/17)	Design Thinking and Learning Design	Introduction to the design of technology enhanced learning (learning design and lesson planning)  Overview of Task 2 Moodle Module
Week 6 (03/04/17)	Designing for Learning using Web 2.0 (blogs, wikis and more)	Designing activities using Web 2.0 tools  Moodle Module group work
Week 7 (10/04/17)	Designing for Learning using Social Networking	Using social networking for learning  Moodle Module group work
<b>Mid Semester Break</b> – Monday 17th April to Friday 28th April		
Week 8 (01/05/17)	<i>No lecture (Education students on practicum)</i>	<i>No face-to-face tutorial</i>
Week 9 (08/05/17)	<i>No lecture (Education students on practicum)</i>	<i>No face-to-face tutorial</i>

Week 10 (15/05/17)	Design of Mobile Technologies	Exploring mobile potentials Moodle module group work
Week 11 (22/05/17)	Designing for Learning using Virtual Worlds	Virtual world activities Moodle module group work
Week 12 (29/05/17)	Abstracting Technology-Enhanced Learning Design Principles Conclusions and Future Directions	Reflections and evaluations Group debriefing Exam overview
Week 13 (05/06/17)	Unit review	<b>In class examination</b>

## Policies and Procedures

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

Academic Honesty Policy [http://mq.edu.au/policy/docs/academic\\_honesty/policy.html](http://mq.edu.au/policy/docs/academic_honesty/policy.html)

Assessment Policy [http://mq.edu.au/policy/docs/assessment/policy\\_2016.html](http://mq.edu.au/policy/docs/assessment/policy_2016.html)

Grade Appeal Policy <http://mq.edu.au/policy/docs/gradeappeal/policy.html>

Complaint Management Procedure for Students and Members of the Public [http://www.mq.edu.au/policy/docs/complaint\\_management/procedure.html](http://www.mq.edu.au/policy/docs/complaint_management/procedure.html)

Disruption to Studies Policy (in effect until Dec 4th, 2017): [http://www.mq.edu.au/policy/docs/disruption\\_studies/policy.html](http://www.mq.edu.au/policy/docs/disruption_studies/policy.html)

Special Consideration Policy (in effect from Dec 4th, 2017): <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/special-consideration>

In addition, a number of other policies can be found in the [Learning and Teaching Category](#) of Policy Central.

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: [https://students.mq.edu.au/support/student\\_conduct/](https://students.mq.edu.au/support/student_conduct/)

## Results

Results shown in *iLearn*, 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 [ask.mq.edu.au](http://ask.mq.edu.au).

## Grading

The University recognises the importance of producing grades and reports of student learning

achievements that are valid, reliable and accurate representations of each student's capabilities in relation to clearly articulated learning outcomes.

Assignments will be awarded grades ranging from HD to F according to guidelines set out in the policy: <http://www.mq.edu.au/policy/docs/grading/policy.htm>. Each assignment uses a standards-based approach to assessment where performance is assessed against specified criteria. You will NOT be notified of a numerical mark for awarded for specific assessment tasks.

Your final unit grade (HD to F) will be accompanied by a numerical grade. The numerical grade reflects the extent to which you have met the overall grade descriptors e.g. an SNG of 73 (ie closer to D than CR) means your work shows evidence of meeting the Credit descriptors and has some characteristics of the Distinction descriptors.

## Grade Descriptors

The following generic grade descriptors provide university-wide standards for awarding final grades.

**HD (High Distinction):** Provides consistent evidence of deep and critical understanding in relation to the learning outcomes. There is substantial originality and insight in identifying, generating and communicating competing arguments, perspectives or problem solving approaches; critical evaluation of problems, their solutions and their implications; creativity in application as appropriate to the discipline.

**D (Distinction):** Provides evidence of integration and evaluation of critical ideas, principles and theories, distinctive insight and ability in applying relevant skills and concepts in relation to learning outcomes. There is demonstration of frequent originality in defining and analysing issues or problems and providing solutions; and the use of means of communication appropriate to the discipline and the audience.

**CR (Credit):** Provides evidence of learning that goes beyond replication of content knowledge or skills relevant to the learning outcomes. There is demonstration of substantial understanding of fundamental concepts in the field of study and the ability to apply these concepts in a variety of contexts; convincing argumentation with appropriate coherent justification; communication of ideas fluently and clearly in terms of the conventions of the discipline.

**P (Pass):** Provides sufficient evidence of the achievement of learning outcomes. There is demonstration of understanding and application of fundamental concepts of the field of study; routine argumentation with acceptable justification; communication of information and ideas adequately in terms of the conventions of the discipline. The learning attainment is considered satisfactory or adequate or competent or capable in relation to the specified outcomes.

**F (Fail):** Does not provide evidence of attainment of learning outcomes. There is missing or partial or superficial or faulty understanding and application of the fundamental concepts in the field of study; missing, undeveloped, inappropriate or confusing argumentation; incomplete, confusing or lacking communication of ideas in ways that give little attention to the conventions of the discipline.

## Student Support

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

## Learning Skills

Learning Skills ([mq.edu.au/learningskills](http://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

## Student Wellbeing

Macquarie University provides a range of Academic Student Support Services. Details of these services can be accessed at [students.mq.edu.au/campus\\_life/campus\\_wellbeing\\_support\\_services/](http://students.mq.edu.au/campus_life/campus_wellbeing_support_services/).

## Advice for International Students

Macquarie International is the first point of contact for international students. Refer to <http://www.international.mq.edu.au/>

International students can make individual or small group appointments to see the Study Skills Adviser, or drop-in for quick questions to E3A, Level 1. Don't forget to bring your unit outlines with you to your appointment.

## Study Skills Support Unit

Many students find it difficult to apply the independent study approaches required for success in tertiary studies. Assistance with study skills is provided through a range of programs for students. See: [http://www.students.mq.edu.au/support/learning\\_skills/](http://www.students.mq.edu.au/support/learning_skills/)

## Writing Skills

Unit staff are not expected to help you with basic writing advice. Further, in fairness to other students, unit staff will not provide you with information and advice concerning assessments, which is not readily available to all students in the unit.

Macquarie University offers a number of courses and services to help students with writing problems, whether they be first or second language speakers of English. If you find writing difficult, you are advised to:

- Contact Sue Spinks, Writing Skills Coordinator, Department of Linguistics, W6A531.  
Telephone: 9850 8770
- Visit the Department of Linguistics Writing Skills website at <http://www.ling.mq.edu.au/>

[support/writing\\_skills/index.htm](http://support/writing_skills/index.htm)

- Contact the Writing Skills Adviser, Centre for Open Education, X5B. Tel: 9850 7470.

## Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

## Student Enquiries

For all student enquiries, visit Student Connect at [ask.mq.edu.au](http://ask.mq.edu.au)

## IT Help

For help with University computer systems and technology, visit [http://www.mq.edu.au/about\\_us/offices\\_and\\_units/information\\_technology/help/](http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/).

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.

***Please do NOT contact the Unit Convener or Tutors regarding technical support for your computer or iLearn.***

IT support can also be contact by calling 9850 4357 or emailing [support@mq.edu.au](mailto:support@mq.edu.au).

## Technological literacy requirements

In order to successfully complete various Education and TEP units students need to ensure they have a reasonable level of competence in ICTs and Information Literacy skills. If you feel uncertain about your competency it is your responsibility to undertake training to acquire or improve these skills as soon as possible as they will be assumed in the workshops. You can request help with your IT literacy from the Library.

Any other technological inquiries can be addressed to any of the following support channels:

- Lodge a OneHelp ticket at <http://onehelp.mq.edu.au>
- Phone (02) 9850 HELP (4357) or Freecall 1800 674357
- Email [help@mq.edu.au](mailto:help@mq.edu.au)
- Face to Face IT Help Desk (locations available at [http://www.mq.edu.au/about\\_us/offices\\_and\\_units/informatics/find\\_us/](http://www.mq.edu.au/about_us/offices_and_units/informatics/find_us/))

## Graduate Capabilities

### Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

## Learning outcomes

- Develop ICT-based learning designs based on appropriate selection and use of contemporary educational technologies
- Critically evaluate and justify technology selection and design decisions with reference to current scholarly commentary, research and theory in pedagogy regarding ICTs in educational contexts

## Assessment tasks

- Quiz Questions
- Moodle module
- Examination
- Tutorial Tasks

## Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

## Learning outcomes

- Critically evaluate and justify technology selection and design decisions with reference to current scholarly commentary, research and theory in pedagogy regarding ICTs in educational contexts
- Explain in a broad sense how ICTs impact on our social, cultural and educational lives
- Model positive attitudes and social behaviours relating to the integration of ICTs within teaching and learning, including effective participation in groupwork processes.

## Assessment tasks

- Quiz Questions
- Moodle module
- Examination
- Tutorial Tasks

## Commitment to Continuous Learning

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they



participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

### **Learning outcome**

- Model positive attitudes and social behaviours relating to the integration of ICTs within teaching and learning, including effective participation in groupwork processes.

### **Assessment tasks**

- Quiz Questions
- Moodle module
- Examination
- Tutorial Tasks

## **Discipline Specific Knowledge and Skills**

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

### **Learning outcomes**

- Perform basic contemporary ICT related tasks using computer software/hardware and the internet (for instance, creating accounts, searching for information, uploading files, posting data)
- Describe a range of contemporary ICTs and critically evaluate their potential for educational purposes
- Develop ICT-based learning designs based on appropriate selection and use of contemporary educational technologies
- Critically evaluate and justify technology selection and design decisions with reference to current scholarly commentary, research and theory in pedagogy regarding ICTs in educational contexts
- Model positive attitudes and social behaviours relating to the integration of ICTs within teaching and learning, including effective participation in groupwork processes.

## Assessment tasks

- Quiz Questions
- Moodle module
- Examination
- Tutorial Tasks

## Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

## Learning outcomes

- Describe a range of contemporary ICTs and critically evaluate their potential for educational purposes
- Develop ICT-based learning designs based on appropriate selection and use of contemporary educational technologies
- Critically evaluate and justify technology selection and design decisions with reference to current scholarly commentary, research and theory in pedagogy regarding ICTs in educational contexts
- Explain in a broad sense how ICTs impact on our social, cultural and educational lives

## Assessment tasks

- Quiz Questions
- Moodle module
- Examination
- Tutorial Tasks

## Problem Solving and Research Capability

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

## Learning outcomes

- Develop ICT-based learning designs based on appropriate selection and use of contemporary educational technologies
- Critically evaluate and justify technology selection and design decisions with reference to current scholarly commentary, research and theory in pedagogy regarding ICTs in educational contexts

## Assessment tasks

- Quiz Questions
- Moodle module
- Examination
- Tutorial Tasks

## Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

## Learning outcomes

- Perform basic contemporary ICT related tasks using computer software/hardware and the internet (for instance, creating accounts, searching for information, uploading files, posting data)
- Describe a range of contemporary ICTs and critically evaluate their potential for educational purposes
- Develop ICT-based learning designs based on appropriate selection and use of contemporary educational technologies
- Critically evaluate and justify technology selection and design decisions with reference to current scholarly commentary, research and theory in pedagogy regarding ICTs in educational contexts
- Explain in a broad sense how ICTs impact on our social, cultural and educational lives
- Model positive attitudes and social behaviours relating to the integration of ICTs within teaching and learning, including effective participation in groupwork processes.

## Assessment tasks

- Quiz Questions

- Moodle module
- Examination
- Tutorial Tasks

## Engaged and Ethical Local and Global citizens

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

### Learning outcomes

- Explain in a broad sense how ICTs impact on our social, cultural and educational lives
- Model positive attitudes and social behaviours relating to the integration of ICTs within teaching and learning, including effective participation in groupwork processes.

### Assessment tasks

- Quiz Questions
- Moodle module
- Examination
- Tutorial Tasks

## Socially and Environmentally Active and Responsible

We want our graduates to be aware of and have respect for self and others; to be able to work with others as a leader and a team player; to have a sense of connectedness with others and country; and to have a sense of mutual obligation. Our graduates should be informed and active participants in moving society towards sustainability.

This graduate capability is supported by:

### Learning outcomes

- Explain in a broad sense how ICTs impact on our social, cultural and educational lives
- Model positive attitudes and social behaviours relating to the integration of ICTs within teaching and learning, including effective participation in groupwork processes.

### Assessment tasks

- Quiz Questions
- Moodle module
- Examination

- Tutorial Tasks

## Changes from Previous Offering

This offering of EDUC261 differs from previous semesters in the following ways:

- The content of several of the lectures and tutorials has changed to reflect recent advancements in learning technology.
- Assessment Task 1 and Task 4 are new in 2017, and the 2016 Task 1 and Task 2 have been discontinued.

## AITSL Professional Teaching Standards

The Australian Institute for Teaching and School Leadership (AITSL) specifies Australian Professional Standards for Teachers (APST). The Australian Professional Standards for Teachers provide a common framework to describe, recognise and support the complex and varied nature of teachers' work. The standards describe what teachers need to know, understand and be able to do as well as providing direction and structure to support the preparation and development of teachers.

EDUC261 forms part of a program of study that enables students to achieve or exceed the **Graduate Teaching Standards**. The Graduate Teaching Standards are the competencies expected of a beginning teacher. The assessment tasks in EDUC261 address Graduate Teaching Standards as outlined in the following table.

Assessment Task	Graduate Teaching Standards Addressed
Task 1 - Quiz questions	3.4 Demonstrate knowledge of a range of resources, including ICT, that engage students in their learning. 4.5 Demonstrate an understanding of the relevant issues and the strategies available to support the safe, responsible and ethical use of ICT in learning and teaching.
Task 2 - Moodle Module	1.2 Demonstrate knowledge and understanding of research into how students learn and the implications for teaching. 2.6 Implement teaching strategies for using ICT to expand curriculum learning opportunities for students. 4.5 Demonstrate an understanding of the relevant issues and the strategies available to support the safe, responsible and ethical use of ICT in learning and teaching.
Task 3 - Examination	1.2 Demonstrate knowledge and understanding of research into how students learn and the implications for teaching. 4.5 Demonstrate an understanding of the relevant issues and the strategies available to support the safe, responsible and ethical use of ICT in learning and teaching.
Task 4 - Tutorial Activities	2.6 Implement teaching strategies for using ICT to expand curriculum learning opportunities for students. 3.4 Demonstrate knowledge of a range of resources, including ICT, that engage students in their learning.

The complete list of Graduate Teaching Standards are outlined below. Further information regarding the Australian Professional Standards for Teachers can be found on the Institute's website: <http://www.teacherstandards.aitsl.edu.au/> .

## AITSL's Australian Professional Standards for Teachers (Graduate)

### Professional Knowledge

#### Standard 1: Know students and how they learn

1.1	Physical, social and intellectual development and characteristics of students	Demonstrate knowledge and understanding of physical, social and intellectual development and characteristics of students and how these may affect learning.
1.2	Understand how students learn	Demonstrate knowledge and understanding of research into how students learn and the implications for teaching.
1.3	Students with diverse linguistic, cultural and socioeconomic backgrounds	Demonstrate knowledge of teaching strategies that are responsive to the learning strengths and needs of students from diverse linguistic, cultural, religious and socioeconomic backgrounds.
1.4	Strategies for teaching Aboriginal and Torres Strait Islander students	Demonstrate broad knowledge and understanding of the impact of culture, cultural identity and linguistic background on the education of students from Aboriginal and Torres Strait Islander backgrounds.
1.5	Differentiate teaching to meet specific learning needs of students across the full range of abilities	Demonstrate knowledge and understanding of strategies for differentiating teaching to meet the specific learning needs of students across the full range of abilities.
1.6	Strategies to support full participation of students with disability	Demonstrate broad knowledge and understanding of legislative requirements and teaching strategies that support participation and learning of students with disability.

#### Standard 2: Know the content and how to teach it

2.1	Content and teaching strategies of the teaching area	Demonstrate understanding of the concepts, substance and structure of the content and teaching strategies of the teaching area.
2.2	Content selection and organization	Organise content into an effective learning and teaching sequence.
2.3	Curriculum, assessment and reporting	Use curriculum, assessment and reporting knowledge to design learning sequences and lesson plans.
2.4	Understand and respect Aboriginal and Torres Strait Islander people to promote reconciliation between Indigenous	Demonstrate broad knowledge of, understanding of and respect for Aboriginal and Torres Strait Islander histories, cultures and languages.
2.5	Literacy and numeracy strategies	Know and understand literacy and numeracy teaching strategies and their application in teaching areas.
2.6	Information and communication technology (ICT)	Implement teaching strategies for using ICT to expand curriculum learning opportunities for students.

## Professional Practice

### Standard 3: Plan and Implement effective teaching and learning

3.1	Establish challenging learning goals	Set learning goals that provide achievable challenges for students of varying abilities and characteristics.
3.2	Plan, structure and sequence learning programs	Plan lesson sequences using knowledge of student learning, content and effective teaching strategies.
3.3	Use teaching strategies	Include a range of teaching strategies in teaching.
3.4	Select and use resources	Demonstrate knowledge of a range of resources, including ICT, that engage students in their learning.
3.5	Use effective classroom communication	Demonstrate a range of verbal and non-verbal communication strategies to support student engagement.
3.6	Evaluate and improve teaching programs	Demonstrate broad knowledge of strategies that can be used to evaluate teaching programs to improve student learning.
3.7	Engage parents/carers in the educative process	Describe a broad range of strategies for involving parents/carers in the educative process.

### Standard 4: Create and maintain supportive and safe learning environments

4.1	Support student participation	Identify strategies to support inclusive student participation and engagement in classroom activities.
4.2	Manage classroom activities	Demonstrate the capacity to organise classroom activities and provide clear directions.
4.3	Manage challenging behaviour	Demonstrate knowledge of practical approaches to manage challenging behaviour.
4.4	Maintain student safety	Describe strategies that support students' well-being and safety working within school and/or system, curriculum and legislative requirements.
4.5	Use ICT safely, responsibly and ethically	Demonstrate an understanding of the relevant issues and the strategies available to support the safe, responsible and ethical use of ICT in learning and teaching.

### Standard 5: Assess, provide feedback and report on student learning

5.1	Assess student learning	Demonstrate understanding of assessment strategies including, informal and formal, diagnostic, formative and summative approaches to assess student learning.
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5.2	Provide feedback to students on their learning	Demonstrate an understanding of the purpose of providing timely and appropriate feedback to students about their learning.
5.3	Make consistent and comparable judgements	Demonstrate understanding of assessment moderation and its application to support consistent and comparable judgements of student learning.
5.4	Interpret student data	Demonstrate the capacity to interpret student assessment data to evaluate student learning and modify teaching practice.
5.5	Report on student achievement	Demonstrate understanding of a range of strategies for reporting to students and parents/carers and the purpose of keeping accurate and reliable records of student achievement.

## Professional Engagement

### Standard 6: Engage in professional learning

6.1	Identify and plan professional learning needs	Demonstrate an understanding of the role of the National Professional Standards for Teachers in identifying professional learning needs.
6.2	Engage in professional learning and improve practice	Understand the relevant and appropriate sources of professional learning for teachers.
6.3	Engage with colleagues and improve practice	Seek and apply constructive feedback from supervisors and teachers to improve teaching practices.
6.4	Apply professional learning and improve student learning	Demonstrate an understanding of the rationale for continued professional learning and the implications for improved student learning.

### Standard 7: Engage professionally with colleagues, parents/carers and the community

7.1	Meet professional ethics and responsibilities	Understand and apply the key principles described in codes of ethics and conduct for the teaching profession.
7.2	Comply with legislative, administrative and organisational requirements	Understand the relevant legislative, administrative and organisational policies and processes required for teachers according to school stage.
7.3	Engage with the parents/carers	Understand strategies for working effectively, sensitively and confidentially with parents/carers.
7.4	Engage with professional teaching networks and broader communities	Understand the role of external professionals and community representatives in broadening teachers' professional knowledge and practice.