



UNSW
SYDNEY

Arts & Social Sciences

School of Education

EDST6771
Graphics and Multimedia
Technology Method 1

Semester 1, 2018

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IMPORTANT:

For student policies and procedures relating to assessment, attendance and student support, please see website, <https://education.arts.unsw.edu.au/students/courses/course-outlines/>

The School of Education acknowledges the Bedegal and Gadigal people as the traditional custodians of the lands upon which we learn and teach.

1. LOCATION

Faculty of Arts and Social Sciences
School of Education
EDST6771 Graphics and Multimedia Technology Method 1 (6 units of credit)
Semester 1, 2018

2. STAFF CONTACT DETAILS

Course Convener: Kelly Bauer
Office Location: Please email to arrange an appointment
Email: k.bauer@unsw.edu.au
Availability: Please email to arrange an appointment

3. COURSE DETAILS

Course Name	Graphics and Multimedia Technology Method 1
Credit Points	6 units of credit (uoc)
Workload	Includes 150 hours including class contact hours, readings, class preparation, assessment, follow up activities, etc.
Schedule	http://classutil.unsw.edu.au/EDST_S1.html

Summary of Course

This course aims to build student understanding of key concepts, skills, and issues in graphics and multimedia technology education. The course will provide an overview of those syllabuses within the Technology 7-10 and Visual Arts curriculums where graphics and multimedia can be taught as a focus area or option. In particular, students will be encouraged to critically examine the content and structure of the Design and Technology Years 7-10, Industrial Technology Years 7-10, and Graphics Technology Years 7-10 syllabuses.

Students will develop their understanding of the processes of planning individual lessons and units of work, teaching a range of skills, using information and communication technology (ICT) and assessing student learning. Microteaching provides students with an opportunity to demonstrate an understanding of key competencies, receive feedback from peers and the lecturer and develop teaching practice.

Learning will be contextualised in relation to knowledge about the nature of graphics and multimedia technology and graphics and multimedia technology education in Australia. Microteaching is used to bring the planned lessons to life and provides students with an opportunity to demonstrate an understanding of key competencies, receive feedback from peers and the lecturer and to develop their teaching practice.

Based on last year's student feedback, the following course changes have been made:

- Changes to assessment to ensure clear and logical progression of difficulty from assessment 1 to assessment 2

Important information

Assessment: Please note that all students must pass all assignments to pass the course, and they must pass the course to go on placement for PE 1.

Attendance: Students are expected to give priority to university study commitments. Unless specific and formal permission has been granted, attendance at less than 80% of classes in a course may result in failure.

Student Learning Outcomes

Outcome	
1	Identify foundational aspects and structure of the NSW Technology and Photographic and Digital Media syllabuses for Stages 4 and 5, and the depth of subject knowledge required to implement the syllabus
2	Evaluate how student characteristics affect learning and evaluate implications for teaching students with different characteristics and from diverse backgrounds
3	Use a range of strategies to plan and teach effective lessons to engage all students, address relevant syllabus outcomes and ensure a safe learning environment
4	Select appropriate resources, including ICT, to engage students and expand learning opportunities
5	Design and evaluate formative assessment strategies and use assessment information to improve learning
6	Practise the ethical and professional values expected of teachers

AITSL Professional Graduate Teaching Standards

Standard	
1.2	Demonstrate knowledge and understanding of research into how students learn and the implications for teaching.
1.3	Demonstrate knowledge of teaching strategies that are responsive to the learning strengths and needs of students from diverse linguistics, cultural, religious and socioeconomic backgrounds.
2.1	Demonstrate knowledge and understanding of the concepts, substance and structure of the content and teaching strategies of the teaching area.
2.2	Organise content into an effective learning and teaching sequence.
2.3	Use curriculum, assessment and reporting knowledge to design learning sequences and lesson plans.
2.4	Demonstrate broad knowledge of, understanding of and respect for Aboriginal and Torres Strait Islander histories, cultures and languages.
2.5	Know and understand literacy and numeracy teaching strategies and their application in teaching areas.
2.6	Implement teaching strategies for using ICT to expand curriculum learning opportunities for students.
3.1	Set learning goals that provide achievable challenges for students of varying characteristics.
3.2	Plan lesson sequences using knowledge of student learning, content and effective teaching strategies.
3.3	Include a range of teaching strategies.
3.4	Demonstrate knowledge of a range of resources including ICT that engage students in their learning.
3.5	Demonstrate a range of verbal and non-verbal communication strategies to support student engagement.
4.1	Identify strategies to support inclusive student participation and engagement in classroom activities.
4.2	Demonstrate the capacity to organise classroom activities and provide clear directions.
6.3	Seek and apply constructive feedback from supervisors and teachers to improve teaching practices.

4. RATIONALE FOR THE INCLUSION OF CONTENT AND TEACHING APPROACH

In addition to learning basic skills and concepts in graphics and multimedia technology education, students undertaking this course will think deeply about some of the most critical issues facing graphics and multimedia technology educators. The course is designed with a view to students eventually becoming excellent teachers who are able to continue to improve the quality of graphics and multimedia technology education in Australia. In addition to traditional lectures, the course also involves workshops where students will take part in simulated classroom activities, critical discussions, and reflective observations of graphics and multimedia technology education in practice.

5. TEACHING STRATEGIES

- Explicit teaching, including lectures, to demonstrate an understanding of students' different approaches to learning and the use of a range of teaching strategies to foster interest and support learning
 - Small group cooperative learning to understand the importance of teamwork in an educational context and to demonstrate the use of group structures as appropriate to address teaching and learning goals
 - Extensive opportunities for whole group and small group dialogue and discussion, allowing students the opportunity to demonstrate their capacity to communicate and liaise with the diverse members of an education community, and to demonstrate their knowledge and understanding of method content
 - Online learning from readings on the Moodle website
 - Online discussions
 - Peer teaching in a simulated classroom setting
 - Structured occasions for reflection on learning to allow students to reflect critically on and improve teaching practice
- These activities will occur in a classroom climate that is supportive and inclusive of all learners.

6. COURSE CONTENT AND STRUCTURE

Refer to the course readings list on Moodle for the compulsory weekly readings.

Week	Lecture Topic	Tutorial Topic
1 26 Feb – 2 March	<p>What is Graphics and Multimedia Technology?</p> <ul style="list-style-type: none"> • Introduction to course aims and assessment procedures • Place of secondary graphics and multimedia technology in the continuum of learning in the Technology and Visual Arts syllabuses 7-10 • Overview of the NSW syllabuses <ul style="list-style-type: none"> ○ Design and Technology Yrs 7-10 ○ Technology Mandatory Yrs 7-8 ○ Industrial Technology Yrs 7-10 ○ Graphics Technology Yrs 7-10 ○ Photographic and Digital Media Yrs 7-10 ○ Visual Design Yrs 7-10 	<p>Discussion of previous experiences in Graphics and Multimedia education</p> <ul style="list-style-type: none"> • Discussion of technology and visual arts education backgrounds <p>Understanding the NSW syllabuses</p> <ul style="list-style-type: none"> • Objectives and outcomes • Organisation of content, including <ul style="list-style-type: none"> ○ Focus areas and modules ○ Options ○ Teaching Graphics and Multimedia as a focus area or option within the different syllabuses • Cross-curriculum content in education including: <ul style="list-style-type: none"> ○ ICT ○ Aboriginal & indigenous ○ Key competencies ○ Literacy & numeracy ○ EALD
NPA areas	C.6, D.3, D.9, E.2, E.9, F.2, A.5, C.1, D.1, F.1	
2 5 - 9 March	<p>Designing and planning lessons</p> <ul style="list-style-type: none"> • Role and value of graphics and multimedia technology in the broader school curriculum and the relationship between a material-specific technology • Planning objectives and outcomes in the mandatory course • Incorporating cross-curriculum content including ICT, literacy and numeracy, Aboriginal and Torres Strait Islander Education • ICT classroom management: safe working practices 	<p>Introduction to Assessment 1 Writing Lesson Plans</p> <ul style="list-style-type: none"> • Designing and writing a lesson plan for Graphics and Multimedia within the Technology 7-10 Curriculum (Stage 4) • Using BOSTES guidelines and support documents to assist in the planning of lessons • Workshop: Lesson ideas for teaching Graphics and Multimedia within Technology 7-10. Incorporating culturally significant practices in design to address student interests and backgrounds
Priority areas NPA areas	A.4, C.3, C.14, A.5, A.6, B.4, C.6, F.4	

<p>3 12 – 16 March</p>	<p>Designing and planning lesson sequences</p> <ul style="list-style-type: none"> • Curriculum options for developing sequence lessons in Graphics and Multimedia • Selecting content and designing learning experiences to engage students • Planning objectives and outcomes in elective courses • Programming and lesson sequencing: key documents and guidelines • Developing student competencies over a sequence of lessons in focus area or option within a module or elective • Backward mapping 	<p>Developing lesson sequences</p> <ul style="list-style-type: none"> • Writing lesson sequences - embedding literacy and numeracy • Designing and writing lesson sequences for Graphics and Multimedia within the Technology 7-10 Curriculum (Stage 4) • Discussion planning for the elective courses in: <ul style="list-style-type: none"> ○ Industrial Technology ○ Graphics Technology
<p>NPA areas</p>	<p>A.4, C.3, C.14, A.5, A.6, B.4, C.6, F.4</p>	
<p>4 19 – 23 March</p>	<p>Graphics and Multimedia Technology Education in Australia</p> <ul style="list-style-type: none"> • A broad and critical knowledge and understanding of the technology discipline, including recent theory and practice related to principles and processes of production and the development of graphics and design as an industry • Role of Graphics and Multimedia in the broader curriculum • Nature and role of past, current and emerging technology in the graphics and multimedia industry • Role of professional associations in providing support and information on developments in curriculum 	<p>Using ICT to meet student needs</p> <ul style="list-style-type: none"> • Pedagogical approaches to the Technology syllabuses • Preparing relevant resources (including ICT) • Addressing different learning needs of students through use of ICT <p>Assessment 1</p> <ul style="list-style-type: none"> • Peer assessment: Draft lesson plans • Evaluating a lesson • Peer discussion and feedback
<p>NPA areas</p>	<p>C.2, C.9, C.3, C.4, C.5, C.12, C.13</p>	
<p>5 26 – 29 March</p>	<p>Questioning</p> <ul style="list-style-type: none"> • Questioning as a strategy to build an inclusive classroom • Exploring social and ethical issues in Graphics and Multimedia through questioning • Using questions to encourage higher-order thinking and student reflection • Questioning as formative assessment 	<p>Workshop</p> <ul style="list-style-type: none"> • Developing higher order thinking • Design and creation of projects using contemporary multimedia techniques, publishing processes, communication and presentation media • Differentiation in teaching multimedia
<p>NPA areas</p>	<p>B.1, B.3, B.5, B.7, B.10, A.1, B.4, D.10, D.13</p>	

Mid-semester break (30th March – 8th April)

6 9 – 13 April	<p>Classroom management and engaging with the school community</p> <ul style="list-style-type: none"> Investigating the correlation between curriculum content, lesson plans, assessment and classroom management in Graphics and Multimedia Managing disruptive student behaviour in an ICT environment Managing learning spaces including WHS practices Framing practical experiences in Graphics and Multimedia education Collaborative processes with staff, students and the local community <p>Introduction to Microteaching</p> <ul style="list-style-type: none"> What is Microteaching? 	<p>Investigating the needs to students</p> <ul style="list-style-type: none"> The flipped classroom Issues of SMART data to understand the levels of literacy and numeracy of students Working with EAL/D students, Aboriginal and Torres Strait Islander backgrounds <p>Microteaching Workshop:</p> <ul style="list-style-type: none"> Introduction to the Microteaching Hurdle Models of microteaching in Graphics and Multimedia
NPA areas	B.1, C.5, C.12	
7 16 – 20 April	<p>Planning and Programming</p> <ul style="list-style-type: none"> Continuum of teaching and learning in the technology curriculum Planning and programming – Stage 4 Planning and programming – Stage 5, leading into Stage 6 	<p>Microteaching</p> <p>Introduction to Assessment 2</p> <ul style="list-style-type: none"> Situational analysis – identifying the needs of a school Writing a situational analysis
NPA areas	B.1	
8 23 – 27 April ANZAC Day 25th April	<p>Programming</p> <ul style="list-style-type: none"> Scoping and sequencing the curriculum incorporating differentiation, assessment and innovative ICT strategies in Stage 5 	<p>Microteaching</p> <p>Workshop</p> <ul style="list-style-type: none"> Writing a scope and sequence Writing a program for a unit of work
NPA areas	B.1	
9 1 – 4 May	<ul style="list-style-type: none"> Resourcing Planning future professional development and resourcing for a unit of work. Planning for alternative pedagogy in a technology classroom (Flipped Learning, Project Based, Problem Based Learning) 	<p>Microteaching</p> <p>Workshop</p> <ul style="list-style-type: none"> Developing a project idea.
NPA areas	B.1	

<p>10 7 – 11 May</p>	<p>Curriculum Differentiation</p> <ul style="list-style-type: none"> • Ways of differentiating curriculum to meet the diverse needs of learners in a graphics and multimedia technology classroom • Identifying and supporting students with special learning needs • Designing activities for students with mixed abilities • Education policies and theories of differentiation 	<p>Microteaching</p> <p>Differentiation strategies Addressing:</p> <ul style="list-style-type: none"> • Numeracy • Literacy • EAL/D • Students with special needs
<p>NPA areas</p>	<p>D.1, D.9, E.7</p>	
<p>11 14 – 18 May</p>	<p>Assessment for Learning</p> <ul style="list-style-type: none"> • Assessment strategies and backward mapping • Assessment as a reflective tool using Assessment for Learning strategies 	<p>Evaluating Teaching and Learning:</p> <ul style="list-style-type: none"> • Using self and peer evaluation for students • Evaluating student outcomes <p>Preparation for Professional Experience</p> <ul style="list-style-type: none"> • Revision of effective teaching practices • CATAI on-line evaluation
<p>NPA areas</p>	<p>D.5, B.4</p>	

Professional Experience

4th June – 29th June 2018

7. ASSESSMENT

Assessment Task	Length	Weight	Student Learning Outcomes Assessed	AITSL Standards	National Priority Area Elaborations	Due Date
Assessment 1 Planning a Series of Lessons	2000 words (indic.)	40%	1-5	1.2, 1.3, 2.1, 2.2, 2.3, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.1, 4.2, 6.3	B.1, B.4, C.3, C.5, C.12, D.10	Week 5 Date 29/3/18 Due 5pm
Assessment 2 Planning Assessment Strategies and Marking Criteria	3500 words	60%	1-5	1.2,1.3,2.1,2.3, 3.1, 3.2, 3.3,3.4,6.3	C.4, C.6, C.7, E.6	Week 10 Date 11/5/18 Due 5pm
Assessment 3	10 minutes	S/S/U	3, 4, 6			Times to be allocated

Students are required to follow their lecturer's instructions when submitting their work for assessment. All assessment will be submitted **online via Moodle (Turnitin) by 5pm**. Students no longer need to use a cover sheet. Students are also required to keep all drafts, original data and other evidence of the authenticity of the work for at least one year after examination. If an assessment is mislaid the student is responsible for providing a further copy. Please see the Student Policies and Procedures for information regarding submission, extensions, special consideration, late penalties and hurdle requirements etc.

Return of Assessment Tasks

Assessments are normally returned via Moodle.

Submission of Assessment Tasks

Electronic copies of an assessment task are to be submitted to the allocated Turnitin Submission Box online via Moodle.

You are strongly advised to aim to submit early, as submissions received one minute after the specified due time will be stamped as late and will incur a late penalty.

Assessment 1 – Lesson Planning

S1 Assessment 1

(2 000 words, weighting 40%)

Plan and design one 60-minute lesson for a mixed-ability Stage 4 class. The lesson plan must follow a standard SED format and be presented using the template provided.

Plan your lesson for a class in a comprehensive high school which would typically include EAL/D students, Indigenous students and students with various religious and cultural backgrounds. Some students may have low levels of literacy. Differentiation to cater for some students is therefore required. Appropriate differentiation strategies are scaffolding, group work and/or an alternative task or mode of presentation.

1. Write a rationale for your lesson plan. Your rationale should address the questions: What do I want the students to learn? Why is it important? What strategies will I use? What assessment for learning strategies will I use to monitor progress?
2. Prepare the lesson plan to demonstrate how you will use appropriate structure, activities, strategies and formative assessment to develop understanding of the material.

Make sure you:

- choose an appropriate topic for the year group
- support your rationale using references indicating your professional reading
- choose appropriate outcomes and lesson content
- demonstrate knowledge of effective teaching and learning strategies
- use appropriate format and provide sufficient detail for an effective lesson plan
- include an aspect of literacy/numeracy which integrates with the lesson focus
- provide in full one activity (which may be ICT-based)
- express yourself in clear, standard Australian English.

UNSW SCHOOL OF EDUCATION
 FEEDBACK SHEET
 EDST6771 GRAPHICS AND MULTIMEDIA TECHNOLOGY METHOD 1

Student Name:
 Assessment Task 1

Student No.:

CRITERIA	(-) _____ □ (+)				
Understanding of lesson planning and sequences					
Depth of analysis and/or critique in response to the task					
Familiarity with and relevance of professional and/or research literature used to support response					
Structure and organisation of response					
Presentation of response according to appropriate academic and linguistic conventions					
GENERAL COMMENTS/RECOMMENDATIONS FOR NEXT TIME					

Lecturer

Date

Recommended: /20 (FL PS CR DN HD)

Weighting: 40%

NB: The ticks in the various boxes are designed to provide feedback to students; they are not given equal weight in determining the recommended grade. Depending on the nature of the assessment task, lecturers may also contextualize and/or amend these specific criteria. The recommended grade is tentative only, subject to standardisation processes and approval by the School of Education Learning and Teaching Committee.

Assessment 2 – Assessment: Planning a Unit of Work

S1 Assessment 2

(3 500 words, weighting 60%)

Prepare an outline for a unit of work for a Stage 5 class. The unit of work should cover the first five lessons; however, you are not preparing full lesson plans.

You must write a rationale for the unit (600-800 words) in which you:

- provide a brief outline of the school and class context
- state precisely what you want the students to learn and why it is important
- justify your choice of topic/text to suit the needs and abilities of this class
- justify your teaching strategies by referring to readings, research and material presented in lectures and the Quality Teaching framework
- demonstrate how differentiation will support a diverse range of learners
- state the prior knowledge students have to begin this unit and discuss how you would assess and build on this prior knowledge.

Include in your unit outline:

- one full activity for formative assessment (not an essay)
- one ICT-based activity (not watching a video or PowerPoint presentation)
- one group-work task with a focus on literacy/numeracy (not a mind-map)
- one incursion/excursion/performance/product activity
- outlines only for the other teaching materials required.

UNSW SCHOOL OF EDUCATION
 FEEDBACK SHEET
 EDST6771 GRAPHICS AND MULTIMEDIA TECHNOLOGY METHOD 1

Student Name:
 Assessment Task 2

Student No.:

CRITERIA	(-) _____ (+)				
Understanding of the question or issue and the key concepts involved					
Depth of analysis and/or critique in response to the task					
Familiarity with and relevance of professional and/or research literature used to support response					
Structure and organisation of response					
Presentation of response according to appropriate academic and linguistic conventions					
GENERAL COMMENTS/RECOMMENDATIONS FOR NEXT TIME					

Lecturer

Date

Recommended: /20 (FL PS CR DN HD)

Weighting: 60%

NB: The ticks in the various boxes are designed to provide feedback to students; they are not given equal weight in determining the recommended grade. Depending on the nature of the assessment task, lecturers may also contextualize and/or amend these specific criteria. The recommended grade is tentative only, subject to standardisation processes and approval by the School of Education Learning and Teaching Committee.

HURDLE REQUIREMENT

MICROTEACHING

Microteaching is the planning, presentation and evaluation of a lesson over a shortened period of time (a 10-minute mini-lesson). It is a critical aspect of method as it provides students with the opportunity to demonstrate key competencies that must be achieved before student teachers are permitted to undertake Professional Experience 1, at the same time observing other student teachers and engaging in peer review. It is recommended that students read widely on effective classroom strategies and practise aspects of their mini-lesson with a small group of peers prior to assessment.

The assessment process will consist of the following two components:

1. A detailed **lesson plan using the suggested template**, including a statement of expected learning outcomes
2. A 10-minute mini-lesson

Initial Lesson Plan: All students must submit to the method lecturer their proposed lesson plan at least one week prior to the presentation. This will be returned with comments on the suitability of the proposal.

Microteaching: This will be assessed according to the attached criteria, and will be graded as **Satisfactory or Unsatisfactory**. Any student whose first microteaching episode is judged as unsatisfactory will be given a further (one only) opportunity to gain a satisfactory grade.

NOTE: If a student is assessed as unsatisfactory in microteaching s/he will automatically fail Method 1 overall, and not be permitted to undertake Professional Experience or any further method work in that teaching area until the key concerns have been resolved.

		Name:	zID:	Date:
Details				
Method		Topic/level		
<p>A. Teachers know their subject content and how to teach that content to their students (AITSL Standard 2)</p> <ul style="list-style-type: none"> • Was the lesson or unit of work relevant to the needs of the students and based on the appropriate syllabus document requirements? (1.3.1, 2.3.1) • Was knowledge of relevant concepts, topics and themes demonstrated, including ATSI perspectives? (2.1.1, 2.4.1) • Were relevant linguistic structures and features and literacy /numeracy knowledge and skills integrated into the lesson? (2.5.1) • Was a clear and coherent sequence of activities undertaken to engage and support the learning of all students within a class or cohort? (2.2.1, 3.2.1) 				
<p>B. Teachers plan for and implement effective teaching and learning (AITSL Standard 3)</p> <ul style="list-style-type: none"> • Were challenging yet realistic and achievable goals in teaching and learning activities planned? Were these explicitly articulated in the lesson plan/to students? (3.1.1) • Were instructions, explanations and questioning techniques effective? (3.3.1) • Were verbal and non-verbal communication strategies used effectively in the classroom to support student understanding of content and encourage participation and engagement of 				
<p>C. Teachers create and maintain supportive and safe learning environments (AITSL Standard 4)</p> <ul style="list-style-type: none"> • Was rapport with the learners established and responsiveness to their needs in the class demonstrated? (4.1.1) • Were activities well organised and direction clear? (4.2.2) • Was respect and appreciation of others demonstrated through active listening, being accessible to all students and exhibiting a 				
<p>Comments:</p>				

Lecturer:

Date:

Satisfactory /Unsatisfactory (circle)

8. RESOURCES

Required Readings:

A list of required readings for each week will be on Moodle.

You are required, for this course, and in the future, to have copies of the syllabus documents. It is highly recommended that you buy them or have them printed and bound yourself.

- Australian Curriculum, Assessment, and Reporting Authority (ACARA). (2009). *Shape of the Australian Curriculum: The Arts*. Sydney, NSW, Australia: ACARA.
- Board of Studies, NSW. (2003). *Design and Technology Year 7-10*. Sydney, NSW, Australia: Board of Studies NSW.
- Board of Studies, NSW. (2003). *Graphics Technology Year 7-10*. Sydney, NSW, Australia: Board of Studies NSW.
- Board of Studies, NSW. (2003). *Industrial Technology Year 7-10*. Sydney, NSW, Australia: Board of Studies NSW.
- Board of Studies, NSW. (2004). *Photographic and Digital Media Year 7-10*. Sydney, NSW, Australia: Board of Studies NSW.
- Board of Studies, NSW. (2004). *Visual Design Year 7-10*. Sydney, NSW, Australia: Board of Studies NSW.
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Further Readings:

- Anstey, M. & Bull, G. (2006). *Teaching and learning multiliteracies: Changing times, changing literacies*. Curriculum Press, Melbourne.
- Attwood, B. (2005). *Telling the truth about Aboriginal history*. All and Unwin, Crows Nest.
- Ewing, R. (2010). *The arts and Australian education: Realising potential*. Victoria: Australian Council for Educational Research.
- Finger, G., Russell, G., Jamieson-Proctor, R. & Russell, N. (2006). *Transforming Learning with ICT Making IT Happen*. Pearson Australia.
- Furniss, G. J. (2008). *Celebrating the art making of children with autism*. *Art Education*, 61 (5), 8 - 12.
- Gibbons, P (2002) *Scaffolding language, scaffolding learning: Teaching second language learners in the mainstream classroom*. Portsmouth, Heinemann
- Gnezda, N. (2005). *Teaching difficult students: Blue jays in the classroom*. Lanham, Maryland: Scarecrow Education.
- Grandin, T. (2006). *Thinking in pictures: My life with autism*. New York: Vintage Books.
- Gibbons, P (2002) *Scaffolding language, scaffolding learning: Teaching second language learners in the mainstream classroom*. Portsmouth, Heinemann.
- Harrison, N (2008), *Teaching and learning in Indigenous education*. Oxford, Sydney.
- Henderson, R. (2012) *Teaching Literacies. Pedagogies and Diversity in the Middle Years*, Oxford University Press, Australia
- Hyde, M., Carpenter, L. & Conway, R. (2010). *Diversity and Inclusion in Australian Schools*. Oxford University Press, Australia
- Martin, K. (2008.) The intersection of Aboriginal knowledges, Aboriginal literacies and new learning pedagogy for Aboriginal students. In Healy, A (Ed.) *Multiliteracies and diversity in education: New pedagogies for expanding landscapes*. Pp 59-81. Oxford University Press, Melbourne.
- Price, K (2012), *Aboriginal and Torres Strait Islander Education: An Introduction for the Teaching Profession*. Cambridge University Press
- Schirmacher, R. (2008). *Art and creative development for young children*. Victoria: Cengage Learning.
- Smith, S. L. (2001). *The power of the arts: Creative strategies for teaching exceptional learners*. Sydney: Paul H. Brookes Publishing Co.

Journals:

- Advanced Photoshop
- Before and After
- CMYK
- Communication Arts
- Communication Research Trends
- Communication, Politics and Culture
- Communications: the European journal of communication research
- Computer Arts
- Computer Arts Projects
- Continuum: Journal of Media and Cultural Studies
- Convergence: the journal of research into new media technologies
- Critical Studies in Television
- Design Issues
- Design Studies
- Digital Arts
- Framework: the journal of cinema and media
- Games and Culture: a journal of interactive media
- How
- Human Communication Research
- I.D.
- International Journal of Advanced Media and Communication
- International Journal of Art & Design Education
- International Journal of Virtual Technology and Multimedia
- Journal of Aesthetic Education
- Journal of Children and Media
- Journal of Communication
- Journal of Design History
- Journal of Design Research
- Journal of Multimedia
- Layers Magazine
- Multimedia Information & Technology
- Multimedia Technology
- .Net
- New Media and Society
- Photoshop Creative
- Print
- Senses of Cinema
- Studies in French Cinema
- Television and New Media
- The Communication Review
- Visible Language
- Web Designer

Websites:

- Australian Museums and Galleries Online <http://amol.org.au/>
- Bauhaus Archive Museum of Design <http://www.bauhaus.de/english/bauhaus1919/index.htm>
- Board of Studies NSW <http://www.boardofstudies.nsw.edu.au/>
- Cooper Hewitt National Design Museum (USA) <http://www.cooperhewitt.org/>
- Filmmaker IQ <http://filmmakeriq.com/>
- Museum of Computer Art <http://moca.virtual.museum/>
- Museum of Contemporary Art, Sydney <http://www.mca.com.au/>
- Museum of Modern Art <http://www.moma.org/>
- National Gallery of Victoria Collection <http://www.ngv.vic.gov.au/collection/>
- National Library of Australia <http://www.nla.gov.au/catalogue/pictures/>
- Object – Australian Centre for Craft & Design <http://www.object.com.au/>
- Powerhouse Museum <http://www.powerhousemuseum.com/>
- State Library of NSW <http://www.sl.nsw.gov.au/>
- The National Fine Art Education Digital Collection <http://fineart.ac.uk/>
- Department of Education and Communities Curriculum Support http://www.curriculumsupport.education.nsw.gov.au/secondary/technology/7_10/technology/

Websites of Professional Associations:

- Design and Technology Teachers Association <http://dattaaustralia.com/>
- Institute of Industrial Arts Technology Education <http://www.iiate.asn.au/>
- Technology Educators Association Inc (TEA) <http://www.teansw.com.au/>
- Visual Arts & Design Educators Association <http://www.vadea.org/>
- ICTENSW ictensw.org.au

The Flipped Classroom,

<http://www.teacherstandards.aitsl.edu.au/Illustrations/ViewIOP/IOP00173/index.html>

TPACK (created by Dr. Matthew Koehler and Dr. Punya Mishra <http://www.tpack.org/>), Technological Pedagogical Content Knowledge (TPACK) is a framework that identifies the knowledge teachers need to teach effectively with technology.

S A M R (created by Dr. Ruben R. Puentedura); provides a framework to answer the question of what types of technology use would have greater or lesser effects upon student learning.

Rural & Distance Education NSW: A local resource presenting both frameworks, <http://rde.nsw.edu.au/tpack-samr>

Teaching Teachers for the Future - What is TPACK? , <http://www.ttf.edu.au/what-is-tpack/what-is-tpack.html>

Reflections of pre-service teachers, <http://www.ttf.edu.au/psts-talk.html>; this series of video clips shows the reflections of several pre-service teachers each of whom trialled one of the twelve Teaching Teachers for the Future (TTF) Australian Curriculum resource packages with a practicum class. At the end of their lesson the pre-service teachers were invited to reflect on the experience of working with the resource package and adapting it to their class situation. They were also asked to reflect on their understanding of TPACK.

Student teachers are encouraged to set up their own blog (It is free) at Edublog , <http://edublogs.org/> to create and share resources and lessons they create.