



Blended Learning @ JCUcontents A guide for staff Aout this guide A guide To Staff

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About this guide

The aim of this guide is to present an introduction to blended learning design for higher education, and to brie y take you through the process of integrating technology into your learning and teaching practice.

of planning, designing and developing, implementing and reviewing; good practice assessment, communication, and the for any curriculum design endeavour.

For each stage in this process, we have attempted to provide guidance, key principles to underpin practice, and an

We have structured this guide around the overview of the commonly used tools and At JCU there are Academic Developers and notion of engaging in a systematic process technologies for use with subject content an ducational Designers in Learning Teaching & resources, student activity and collaboration Student Engagement (LTSE) who can assist you. management and administration of learning Most importantly, we also encourage you to talk to colleagues, share your own ideas and and teaching.

experiences, and learn from each other; after Throughout this guide we refer you to onlineall, that is what we encourage our students resources, help guides, and further reading to do!

1.1 What Is Blended Learning?

"Blended learning" refers to learning design that strategically, systematically and effectively integrates a range of face-toface, online, mobile, distance, open, social and other technology enhanced learning across physical and virtual environments, as ways not previously available to them. informed and driven by student needs and support for desired learning activities and learning outcomes (JCU Blended Learning Policy, 2014).

Blended Learning covers a wide range of activities across a continuum spanning conventional and face-to-face interactions to those that are online. Blended learning courses use a mix of face-to-face and online delivery (between 30-79%).

1.2 Why Blend?

Blended learning is the purposeful use of technologies to enhance student learning and outcomes. It is the purposeful use of

Blended learning design can:

- Broaden the spaces and opportunities available for learning;
- Support subject management activities (eg. communication, assessment, submission, marking and feedback);
- Support the provision of information and resources to students;
- Engage and motivate students through interactivity and collaboration.

to support student achievement of learning, this diagram provides a way to as well as supporting teachers.

The integration of blended learning will vary greatly depending on your subject context.

1.2.1 Blended Learning Possibilites

Taking a blended learning approach to your subject can be used to support face to face teaching, large and small group learning, self-directed learning, and communication technologies in subject design to enhance theith and between students. You can blend learning and teaching experience for teachertime', (ie. Face to face v. recorded lectures), and students by enabling them to engage in place' (tutorials v. discussion, virtual eld trips), 'people' (podcast of guest lecturers) and resources and activities.

> The gure (1-1) on the following page, courtesy of Grif th University (2010), illustrates the possibilities for blended learning.

Figure 1-2 titled "Possibilities for Blended Learning within the LearnJCU environment" shows Learn JCU supported technologies, according to the following purposes: (1) delivery of course content; (2) communication and collaboration; (3)

It is not about using the technology becausetracking student activity; and (4) assessment it is available; it is about inding better ways and feedback. When designing for blended outcomes and providing them with the best consider which technologies can support the possible learning and teaching experiences, planned activity designed to enhance student learning.

Table 1.1. Relationship between course type and percentage of content delivered online.



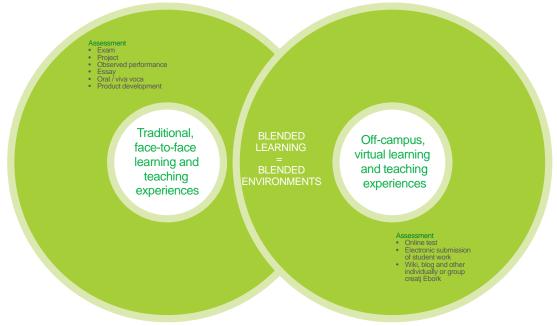


Figure 1.1. Possibilities for blended learning

Source: Grif th University, 2010, p. 4

Teaching with Technology at JCU

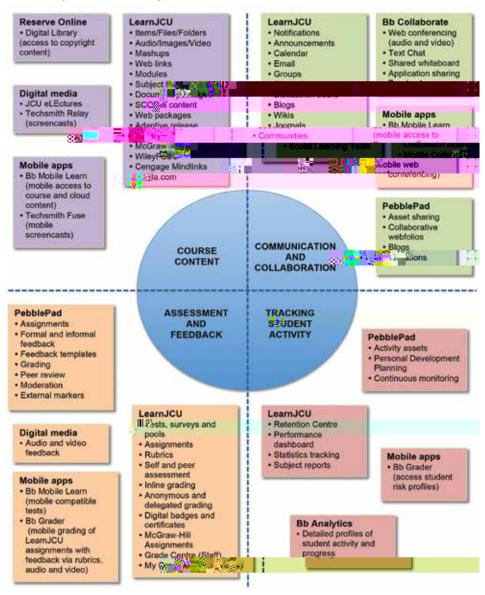


Figure 1.2. Possibilities for blended learning within the LearnJCU environment

2.1 The Design Process

Taking a deliberate approach to the design of technology-enhanced learning experiences The following questions can serve as effective What frameworks can be used to support The JCU Learning, Teaching and Assessment programs: Policy states, that pproaches to teaching are varied and adaptive to new demands in learning and will include effective

innovation. www.jcu.edu.au/policy/ allitoz/JCU 076643.html.

use of appropriate technologies and

Quality blended learning design exhibits the following features:

- · Participative, not just interactive (Wild, 2007)
 - Processes of cognition & collaboration enhanced through students being actively engaged in their own learning.
- "Thinking and working together creates learning" (Allen, 2010 cited in Grif ths University, 2010, p. 7).

Good preparation and decision making is essential not only for ef cient use of your time, but also the creation of quality learning experiences for your students.

2.2 The Process **Explained**

is crucial for the success of blended learning prompts for designing your blended learning the implementation of blended Learning?

Planning

- Who are my learners? (Pro le your learners)
- · What are my learners expected to achieve and to what standard? (Subject Learning Outcomes)
- What assessment tasks have been designed to enable my learners to demonstrate they have met the learning outcomes?
- What feedback has there been about this subject?
- What are consistent learning issues in my subject? Make a start by disrupting current ways of doing. How can a purposeful blend:
 - · clarify confusing concepts?
 - provide fundamental concepts?
 - · invigorate potentially dull aspects of your subject?

Designing

- What teaching and learning activities will I design to support student learning?
- - How can a purposeful blend support the student experience and student learning?
 - What active learning strategies should be used and how can a deeper approach to learning be encouraged?
 - · What resources are available to support students and staff?

Implementing

· How will I track my learners' activity and provide feedback to them?

Reviewing

- How do I know it is a useful blend?
- · What feedback has there been from my learners, from staff or from industry partners?

Improving

· What changes need to be made for the next delivery of this subject?

Blended Learning Design Cycle

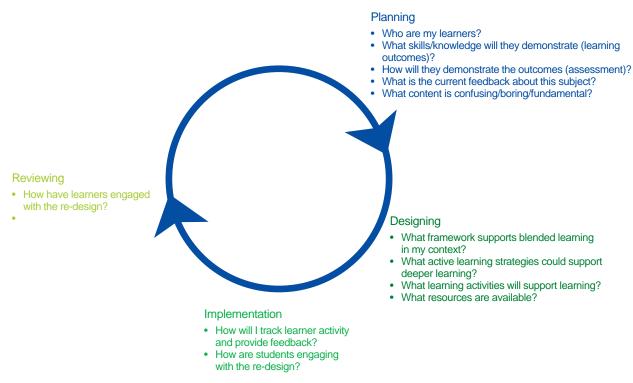


Figure 2.1. Designing blended learning at JCU

3.1 Blending for Active Student Engagement

Active engagement with subject material is vital for effective learning. Research overwhelming supports the idea that student achievement is enhanced when students go beyond the passive tasks of listening and reading or viewing. Active engagement can be facilitated through individual or collaborative work. Within your subject student activity should ideally includea combination of individual and collaborative work as well as formative and summative tasks to support students in _ attaining the subject learning outcomes.

Figure 3-1 outlines the range of outcomes from Bloom's Taxonomy that are possible when using active learning strategies in your teaching.

3.1.1 Blended Learning and Bloom's Taxonomy

The following table aligns different types of blended learning activities with cognitive processes organised according to Bloom's Taxonomy. If you are interested in applications related to active learning and Bloom's Taxonomy please follow these links:

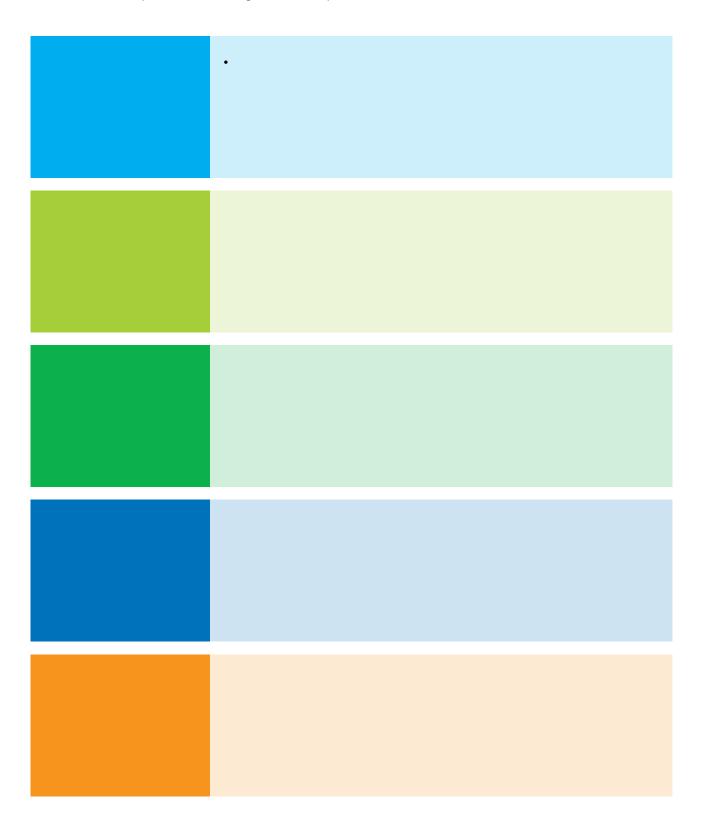
Level of learning	Types of blended learning activities
Creating Designing, constructing, planning, producing, inventing	Programming, Iming, animating, video/blogging, mixing/re-mixing, web publishing, webcasting, directing or producing, – used to create a Im, presentation, story, program, projects, media product, graphic art, podcast, advertisement, model.
Evaluating Checking, hypothesising, critiquing, experimenting, judging, testing	Debate or panel (using webcasting, web conferencing, online chat or discussion), investigating, (online tools) and reporting (blog, wiki, presentation), persuasive speech (webcast, web document, mind document, mind map-presentation mode), commenting/moderating/reviewing/posting (discussion forums, blogs, wiki, chat room, twitter) as well as collaborating and networking.
Analysing Comparing, organising, deconstructing interrogating, structuring	Surveying/polling, using databases, relationship mind maps, online SWOT analysis, ngreporting (online charts, graphing, presentation or web publishing), mashing, metatagging.
Applying Implementing, carrying out, using, executing, editing	Simulation games or tasks, editing or developing shared documents (wiki, video and sound tools), interviews (e.g. making podcast), presentation or demonstration tasks (using web conferencing or online presentation tools), illustration (using online graphic, creative tools).
Understanding Interpreting, summarising, paraphrasing, classifying, explaining, comparing	Building mind maps, blog journaling, wiki (simple page construction), categorising and tagging, advanced internet (Boolean) searches, tagging with comments or annotations, discussion forums, show and tell (with audio, video webcasting).
Remembering Recognising, listing, describing, identifying, retrieving, naming, locating	Simple mind maps, ash cards, online quizzes, basic internet searches (fact nding, de ning), social bookmarking, Q&A discussion forums, chat, presentations.

Table 3.1. Bloom's Digital Taxonomy

 $Source: Adapted from Churches, 2008: retrieved \ \ \ http://www.scribd.com/doc/8000050/Blooms-Digital-Taxonomy-v2-12$

3.2 The 5Es Framework

A useful model for constructing blended learning is the 5 E's model. The model emanated from science curriculum moves to promote inquiry and more student-centred learning. The 5 E's model is derived from the concept that students learn and retain knowledge when they have had the opportunity for discovery through a variety of experiences purposefully designed by the teacher or learning facilitator. Student use their prior knowledge to make connections between new information/experiences and prior knowledge. To help students make these connections learning facilitators structure experiences that are organised into ve phases:



3.2.1 Engage

The purpose of 'Engage' is to focus students' attention on the lesson/topic, create an organising framework for the ideas, principles, or information that is to follow (teaching strategy called "advanced organisers"), to extend the understanding and the application of abstract idea through the use of example or analogy. The "hook" can be used any time a different activity or new concept is to be introduced.

Strategy	Purpose	Description of strategy	Examples	Implementation suggestions and variations
Topical/controversial video & associated focus question(s)	Students focus their attention on important material		a short video clip to address these. Such as • TED talk • Khan Academy	multiple choice
Focussed listing; pre-quiz	Instructor identi es students' prior knowledge or attitudes Students recall what they have learned about a topic	Students recall what the know about a subject by creating a list of terms of ideas related to it. 1. To begin, the instructor asks students to take out a sheet of paper and generate a list base on a given or chose topic. 2. Instructors ask students to share their lists. Note: Can be used befor or after instruction. Focused listing need no take more than a few minutes.	psychology course, students provide examples of de ning characteristics of Piaget's stages of cognitive development. In a political science course, students identify the pros and cons of a government's proposed course of action currently in the news.	 Impose a time limit and inform students. Students share their lists in small groups. Students make a focused list prior to the discussion and then add to the list (correcting any prior misconceptions) at the end of the class period. May be used in conjunction with the "Roundtable"strategy. Students share their lists in small groups and identify the mtwo to three most important points, which they then share with the class. Students brainstorm in small groups, typing their lists. Can also be combined with "write around the room" strategy. Students can project their list using the screen sharing facilities.
Mind mapping (conclude in Evaluate)	Instructor gains an sense of students understanding so far Students can organise and make links between knowledge	technique for drawing information in diagrams, instead of writing it in sentences. The diagram always take the same basic format of a tree, with a single starting point in the middle that branches out, and divides again and again.	Students place this sconcept in the centre of the map. Students then identify the related content within this concept ie. Social and civ	e G

3.2.2 Explore

The purpose of explore strategies to have students deepen their understanding of key content and skills presented in your subject.

- Focus is to facilitate activities that give students the opportunity to explore the concept/skill. This should allow them to engage with problems and describe them in their own words.
- Helps them acquire a common set of experiences to share with their peers.

Strategy	Purpose	Description of strategy	Examples	Implementation Suggestions and Variations
Brainstorming	a large number of ideas for potential solutions to a problem.	e State the issue and general ideas regarding the issue having agreed upon a time limit. Categorise, combine, re ne and condense ideas Assess potential solutions	potential courses of action for a world leader in regards to a current issue.	Ask students to not only brainstorm, but also to
Think: Pair: Share				

3.2.3 Explain

The purpose of explain strategies is for students to make explicit links between content and experience

- Focus is for facilitator to provide the concepts and terms already used by the students to develop explanations for the phenomenon they have already experienced.
- Explanation follows experience

Strategy	Purpose	Description of Strategy	Examples	Implementation suggestions and variations
Peer Tutoring	Instructor determines students' comprehensio of course content Students improve communication, paraphrasing and small-	Students work in groups into solve problems, work through scenarios, deepe understandings	peer groups based on diverse en groupings (potentially using LearnJCU data) 2. Instructor provides cases study problem, scenario etc.	
	group presentation skills Students learn from and	8	Students work through answers in a collaborative setting.	5
	about their classmates			
Ten Two/ Interactive Lecture Strategy	Students process information presented. Instructor and students II in any gaps or misunderstandings. Students clarify information for one another; build on peers' knowledge	two minutes to encourage listeners to pair up with a partner and share their ideas.	1940s.	of 4 students) to summarise the 3-5 key points or "take-aways" from the session. 3. This activity may be used when students are watching classmates' presentations. This can be effective in maintaining audience focus and provides helpful feedback to the presenter in determining whether he or she successfully communicated the points intended.
Quick Writes	Students activate their existing cognitive structures or construct new ones to subsume th new input	Typically, students would be asked to do a quick write in the middle of a lecture, video, or demonstration of a mathematical procedure. The instructor chooses a suitable spot for a quick write by considering	a professor might pause after the ninitial description of the difference between a standard deduction and a personal exemption and as students to explain the difference in their own words. Used well, the quick write provokes discussion. When two or three students read their responses aloud, it often becomes apparent that there has been no meeting of the minds on this topic and the instructor has the supportunity to probe for further	teaching spaces k
Step-by-step	Students demonstrate the strategies that they need to undertake to solve a problem	Using a 'blackboard' problem instructor asks the students to break the problem into short steps then the students II in the steps themselves		

3.2.4 Elaborate

3.2.5. Evaluate

The purpose of evaluation is to review and re ect on their learning, new understandings/skills.

• Students provide evidence of learning.

- How does your practice demonstrate attainment of the standard?
- How do you plan to transform your practice to support improved demonstration of the standard?

Explore (pre-lecture activity)

 Read the Professional Standards by Career Stage document www.aitsl.edu.au/australian-professional-standardsfor-teachers/standards/list?c=graduate

Focus questions:

What are the key differences in the characteristics of professional practice across the domains of graduate, pro cient, competent and highly skilled?

What are your big questions relating to the professional standards?

Explain (face-to-face teaching)

Engage students with initial discussions (you can do this in a variety of ways – group sharing and lecturer-led discussion)

- 1. Answers to Engage questions
- What are your big questions? (make note and make sure that you cover)

Three key concepts for the week (across three lectures)

- What are the professional standards for teaching?
- What key values and beliefs drive these standards?
- How can I ensure that I attain the required standard?

Active learning opportunities are presented by using:

Think, Pair, Share: How do the Professional Standards shape teacher practice?

Elaborate

Jigsaw Activity: Students are organised in groups. Each group is assigned a particular standard and given the elaborations of these. Students create a de nition of 'best practice' of this standard and compile a list of possible evidence that could be used to demonstrate this standard.

Evaluate

Students preview the Standards Support Resources and discuss the ways in which the resources could further develop understanding of the Standards or support professional learning. Complete the Learning Pathways Activity table to map the use of these.

3.2.6.3 Blended Learning Design for Occupational Therapy

Topic: Introduction to occupational therapy

Engage

Post OT vs PT You tube link (this is a trigger that problematises the work of OT)

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Appendix B

Audit of current practice

The learning intent drives the selection of technological tools. Audit your current use of online tools using the following:

Function	Activity	` Currently used
Online Learning and teaching	Recorded lecture	
	Webcast	
	Online virtual classroom (Collaborate)	
Teacher/student communication	Email	
	Announcement	
	Discussion forum	
	Online chat (synchronous)	
Individual activities	Re ective journal (blog or wiki)	
	ePortfolio	
	Online practise quiz (formative)	
Student collaboration	Discussion, debate, role play (using discussion forum or collaborate)	
	Small group work (using wiki or online meeting room)	
	Creating and sharing learning resources (using mind maps social bookmarking sites)	of
Assessment	Online tests	
	Electronic submission of student work	
	Wiki, blog and other individually created or group created w	ork
Student resources	Course reading	
	Online study guide	
	Web link	
	Online self-paced activity	
	Online calendar	

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