Blended Learning: Situations and Solutions

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This the talk will cover:

- 1. Definitions of blended learning
- 2. Advantages and disadvantages
- 3. Models of blended learning
- 4. Examples of blended learning
- 5. Future direction of blended learning







Chris Dede, Campus Technology, June 2006: Changing the Gold Standard for Instruction

 "Face-to-face may be best for most faculty...However, we know that many students who are silent in classroom discussions find their voice and participate actively in different flavors of mediated interaction."







Blended Learning Defined:
Blending Online and F2F Instruction

"Blended learning refers to events that combine aspects of online and face-to-face instruction" (Rooney, 2003, p. 26; Ward & LaBranche, 2003, p. 22)

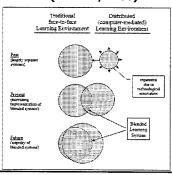


The Sloan Consortium

(2003). Sizing the Opportunity: The Quality and Extent of Online Education in the U.S., 2002 and 2003 http://www.sloan-c.org/resources/sizing_opportunity.pdf

- Traditional: 0% online technology
 (all content in writing or orally)
- Web facilitated: 1 to 29% online
 (Web syllabus or tasks supplemental)
- Blended/Hybrid: 30-79% of content is delivered online & some FTF meetings
- Online: 80+% of content is online

Historical Emergence of BL (Graham, 2006)





Blended Learning Advantages

- 1. Increased Learning (better papers, higher scores)
- 2. More effective pedagogy and interaction
- Course access at one's convenience and flexible completion (e.g., multiple ways to meet course objectives)
- 4. Reduction in physical class or space needs, commuting, parking
- 5. Increased opportunities for human interaction, communication, & contact among students
- 6. Introverts participate more



Ok, Million Dollar Question: Where is blended learning beneficial?

Where is Blended Beneficial?

http://www.center.rpi.edu/PewGrant/ProjDesc.html

- Large Classes
- Classes with working students
- · Class with many reference/supplemental materials
- Need to put prework or assessment online
- · Students spread over a distance
- · Classes with certification
- Classes with need for standardization
- New requirements for a profession
- · Writing intensive classes
- Need to access to experts online
- Theory classes



Frameworks and Models of Blended Learning...



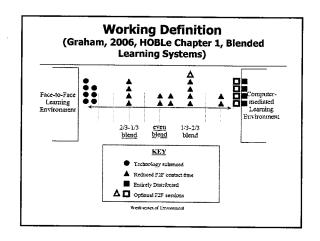


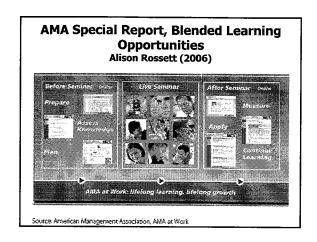


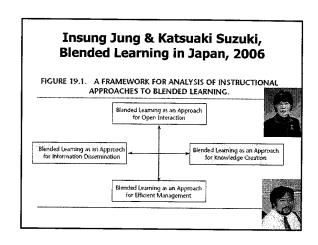
Handbook of Blended Learning (HOBLe)

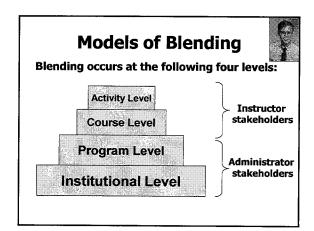
- University of Phoenix, Capella University, JIU, National University
- Microsoft, IBM, Sun, Cisco, Macromedia, Oracle, WebCT
- The World Bank, the DOD in USA
- In Canada: York University and the University of Calgary
- Other universities in Japan, Korea, Malaysia, Singapore, China, NZ, South Africa, Israel, Mexico, Australia, Wales, England, USA

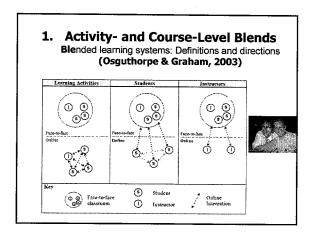


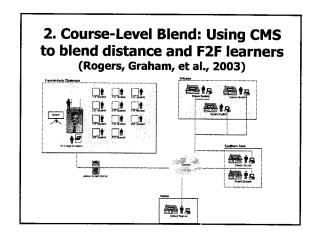


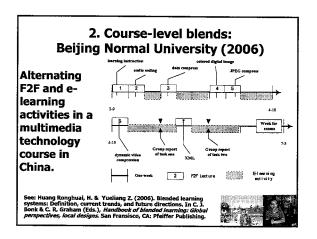


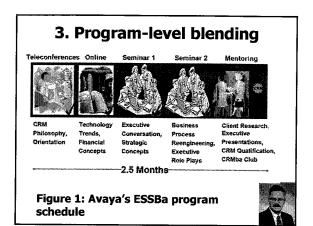


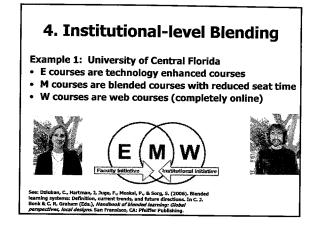


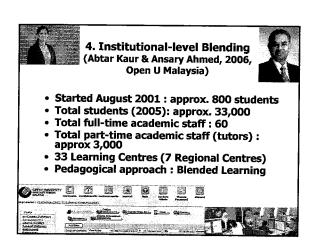








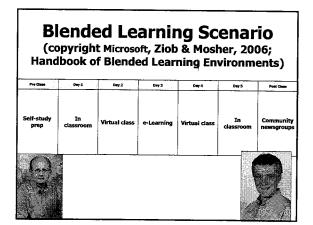


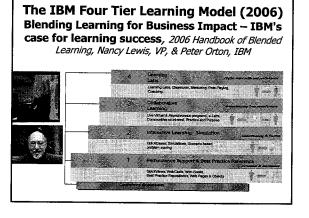


4. Institutional-level Blending (Brian Linquist, 2006)

Example 2: University of Phoenix

- Completely online courses
- Residential F2F courses
- Blended Courses
 - Local Model = 5 week courses with first and last week F2F
 - Distance Model = 5 week courses with half first and half last week F2F (the last meeting of one course is coordinated to be back-toback with the first meeting of the next 5 week course)





Specific Learning Elements An Learning Ecology from Sun Microsystems (Wenger & Ferguson, 2006) Learner Self-Navigation Practicing · Authentic tasks · Role-Play Books, articles, guides References White papers Asynchronous Conter Projects Case Studies Peer Discussion Discussion Forums Asynchro Job Aids saries -FAQs Content Delivery Focus Classroom Lectures • Exercises Diagnostic Labs Practice Labs Mentoring/tutoring Experiments Synchronous Content Demonstrations Reviews/Discussions · Video-conferencing Teaching Guided Navigation

Categories of Blends Enabling blends primarily focus A. Enabling on addressing issues of access Blends and convenience; provide similar learning experiences. Enhancing blends allow for B. Enhancing incremental changes to the Blends pedagogy; additional or supplementary online resources. Transforming blends are blends C. Transforming that allow for a radical Blends transformation of the pedagogy and learner construction of knowledge.

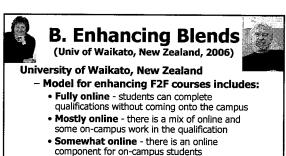
A. Enabling Blends

- Many of the for-profit institutions like Capella, Jones International University, and University of Phoenix have models that focus on making educational opportunities available to those who don't have access due to time and location constraints.
- National University has a teacher preparation program geared towards access and flexibility.
- Many international education and training programs are also focused on providing access (e.g., World Bank, Mexico's Red Escolar program, etc.)

National University
Department of Teacher Education
(Reynolds & Greiner, 2006)



- 12,000 Enrolled Students
- Since 2004 More than 50% of Candidates Enrolling as Online rather than On-site
 - -- They will take a majority of classes online
- Each Candidate Takes 7 Credential Classes
- Each Class Contains 2 Field-based Exp.
- 500 Classes/Yr. & 20 Students/Class =
- 20,000 Field-based Experiences/Year



Supported online - courses are taught in the traditional lecture/tutorial mode, supported by material provided through the online learning or relevant university schools' document

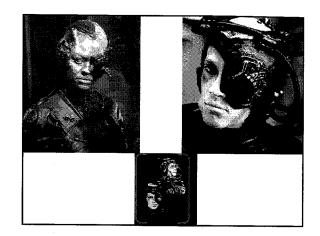
management systems





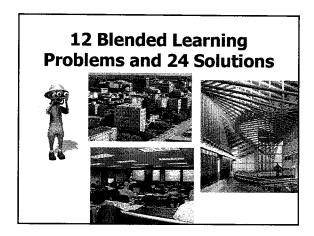
What can we say about blended learning then???

- It is everywhere!!!!!!!
- Resistance is futile!!!!!!!



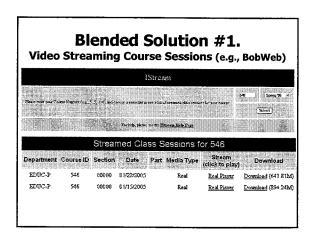
Future learning systems may not be differentiated as much based on **whether** they blend but rather by **how** they blend.

(paraphrase from Ross and Gage, WebCT)



Problem Situation #1: Student Absenteeism

 Students miss class to attend a conference or event or a personal problem arises. Or students asks to watch the class a second time.



Problem Situation #2: Facilities and Time

 Limited facilities or rooms for teaching. Or students cannot make it to class every week or are working full time.

Blended Solution #2.

Divide Online and Class Experiences: English Classes Online

Graham, Ure, & Allen (2003, July). Blended Learning Environn A Literature Review and Proposed Research Agenda

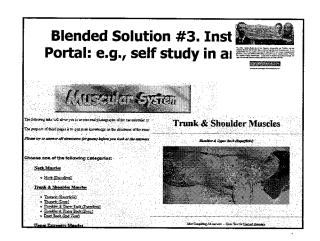
 Freshman English at BYU: Students are required to meet F2F once a week instead of three times a week. Online modules provide writing instruction and teaching assistants use online and F2F contact to provide feedback and guidance on writing (Waddoups et al., 2003).



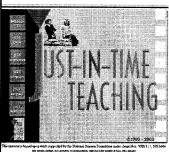


Problem Situation #3: Web Supplemental Activities

 Fail to finish class discussion or other activity in time. Or desire to integrate the Web more in your face-to-face instruction or outside of class. Want to provide course resources and activities for students to explore.



Blended Solution #4: Warm-ups Online Just-In-Time-Teaching (JiTT) http://webphysics.iupui.edu/jitt/jitt.html





Blended Solution #5. Online Role Play, Surveys, Discussion, etc.

- Enroll famous people in your course
- Students assume voice of that person for one

of that person for one

24.3. <u>I am so wise, so listen.</u> <u>Aristotle</u> 11/25/03 05:49 PM



- Training Magazine might have a a little bit of a bias too. Also, I b boring instructional animations and videos. Classroom or e-learnin a good audiotape - they can all be good for learning. Cost-effective to go away as an issue, so we might as well face it instead of sayin learning is better than another - because it costs more! How did y of the Huns? Didn't you compare prices on spears and horses befigiobal conquests?



© 24.3.1. Again my opinion - e-learning is NOT costeffective and is NOT value for money, and does NOT equate good quality

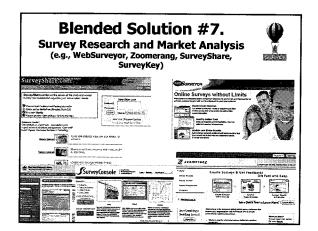
Attila the Hun

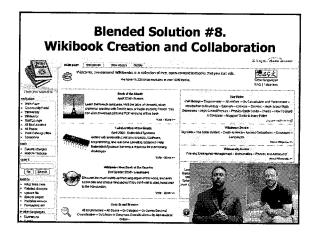
Problem Situation #4: Student Learning Control

 Want to give students more control and ownership over their own learning. Want to foster student generative learning or being authors of their own knowledge.

Blended Solution #6. Use of Weblogs (especially English writing class)

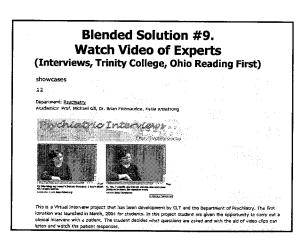
- 1. Instructor or Tutor blog: resources, information, space to chat
- 2. Learner blog: reflections, sharing links and pics, fosters ownership of learning
- 3. Partner blog: work on team projects or activities
- 4. Class blog: international exchanges, projects, PBL
- Revision: review and explode sentences from previous posts, add details
- 6. Nutshell: summarize themes or comments across blogs
- Blog on blog: reflections on feelings, confusions, and experiences with blogs





Problem Situation #5: Preparedness for the Profession

 Students are not prepared for their professions when they graduate. Or want to better apprentice students into their chosen profession. What to provide opportunities to work with practitioners, experts, mentors, and coaches in authentic learning environment.

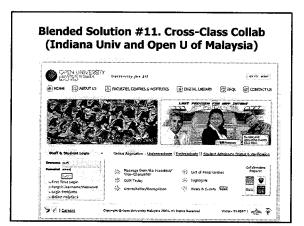


Blended Solution #10. **Videoconferencing Expert Lectures** and Online Conferences



Problem Situation #6: Collaborative Skill Deficit

 Students need collaboration and teamwork skills. Want to build virtual teaming skills in class activities or work with learners in other locales or situations.



Blended Solution #12. **PBL: Tourism Mock Tours**

news bureau



Dynamics of Tourism: students from IU and South Korea use online resources to plan tours and create mock tour packages.

Problem Situation #7: Student Reflections and Connections

 Students are not connecting content. They are just turning pages and going through the motions. Minimal student reflection is seen.

Blended Solution #13. Workplace and Field Reflections, Job Interviews

- 1. Instructor provides reflection or prompt for job related or field observations
- 2. Reflect on job setting or observe in
- 3. Record notes on Web and reflect on concepts from chapter
- 4. Respond to peers
- 5. Instructor summarizes posts



Problem Situation #8: Learning Community

 There is a preference for creating an online learning community in order to increase student learning and retention in the program. Such a community might be in a single class or across a series of classes.

Blended Solution #14: Teacher Professional Development in Technology Integration (the TICKIT Program)

(Bonk, Ehman, & Yamagata-Lynch, in press, AACE Journal) http://www.iub.edu/~tickit





TICKIT: Teacher Institute for Curriculum Knowledge about Integration of Technology

Problem Situation #9: Need to Visualize Content

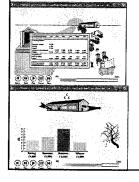
 Content is highly visual in nature and difficult to simply discuss in class. Or students have a preference for visual learning.

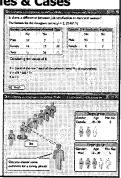






Blended Solution #15: Interactive Online New Stories & Cases



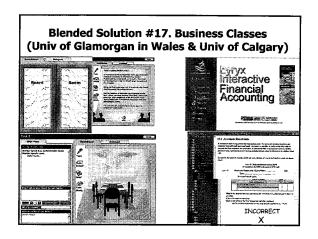


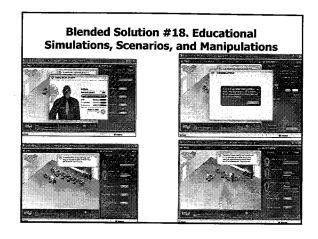
Blended Solution #16: Exploration and Demonstration: Virtual Fieldtrip, Tours, Timelines

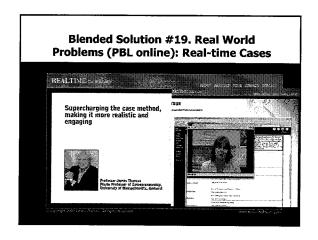


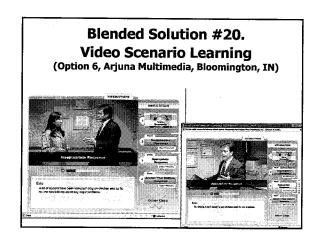
Problem Situation #10: Need for Hands-On Learning

 To learn the material requires that students try it out in a lab or real-world situation. Or students prefer hands-on learning activities.



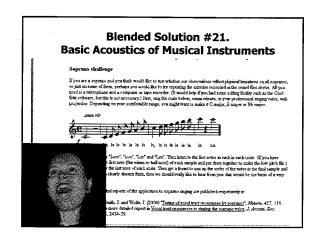






Problem Situation #11: Preference for Auditory Learning

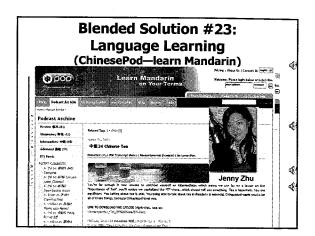
 The content is heavily verbal or words. Or students have a preference to listen to a lecture or hear an instructor deliver a lecture.



Blended Solution #22: Podcasting and Coursecasting (Adam Curry; www.dailysourcecode.com)

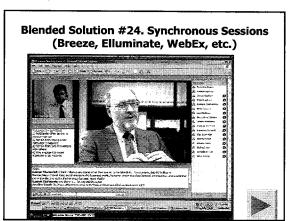
- Recordings of lectures (Coursecasting)
- Textbook text
- Student projects
- Interviews
- Language lessons
- Oral reports
- K-12 classroom interactions
- Downloadable library
- Recordings of performances





Problem Situation #12: Lack of Instructor Presence

 Students need to see or hear from the instructor. They need a sense that the instructor is supporting their learning. They prefer face-to-face but are willing to try online.



Implications and Challenges for Blended Learning in Higher Education

- · Faculty and students are more mobile.
- · Student expectations rise.
- · Greater self-determined learning.
- More corporate university partnerships.
- · Courses increasingly modular.
- · Less predefined schedules.
- · Scheduling much more complex.

