Masterclass Part Three:
Blended Learning A to Z:
Myths, Models, and Moments of Magic
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What I will discuss...
1. Definitions of blended learning
2. Advantages and disadvantages
3. Models of blended learning
4. Examples of blended learning
5. Implications for 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

Blended Learning: Two Parts
1. Models and Frameworks
2. Problems and Solutions (i.e., examples)
(When do blends make sense?)

Blended Learning Defined and Explained

<table>
<thead>
<tr>
<th>Myth #1: People will know what I am saying when I say “blended learning.”</th>
<th>Myth #2: Blended is the same as “hybrid.”</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Sloan Consortium</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Type of Learning</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traditional</td>
<td>Course with no or little technology use, content is delivered offline, mostly lecture, no contact hours.</td>
</tr>
<tr>
<td>10%</td>
<td>Face-Supported</td>
</tr>
<tr>
<td>20% to 90%</td>
<td>Flipped</td>
</tr>
<tr>
<td>90% to 100%</td>
<td>Blended-Hybrid</td>
</tr>
<tr>
<td>100%</td>
<td>Distance</td>
</tr>
</tbody>
</table>
Myth #3: Knowing "how much" to blend is vital.
Range of Blends in Pew Cases

Myths #4: Blended learning is easy to define.
Myth #5: Blended learning is hard to define.
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)

Those in the Military!
Going the Distance, Elizabeth Millard, University Business, March 2011

Acquisition Knowledge Management System
a collaborative environment sustaining acquisition skills & knowledge

We Support the Job 24/7!
DAU provides learning and job support assets needed to "Fill the Gaps" supporting learning "On the Job"
Myth #6: Blended learning works everywhere. Where is Blended Beneficial?

- Large classes (Spanish, intro psych, algebra, elementary statistics, biology)
- Classes with working students
- Students spread over a distance
- Classes with certification
- Classes with need for standardization
- New requirements for a profession
- Writing intensive classes
- Theory classes

Examples of Blended Learning, Margaret Driscoll, e-Learning, March 2002

- Put assessments/reviews online
- Follow-up in community of practice
- Put reference materials on Web
- Deliver pre-work online
- Provide office hours online
- Use mentoring/coaching tool
- Access experts live online
- Use e-mail and instant messaging

Myth #7: People learn more in face-to-face settings than blended or fully online ones.

Fully Online and Blended Learning Advantages

1. Increased learning (better papers, higher scores)
2. More effective pedagogy and interaction
3. 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

Athletes and Performers

Going the Distance, Elizabeth Millard, University Business, March 2011
Myth #8: Faculty can have a logical discussion with administrators about blended learning.

Models of Blending
Blending occurs at the following four levels:
- Activity Level
- Course Level
- Program Level
- Institutional Level

1. Activity- and Course-Level Blends
Blended learning systems: Definitions and directions (Osaguthohe & Graham, 2003)

2. Course-Level Blend: Using CMS to blend distance and F2F learners
(Rogers, Graham, et al., 2003)

3. Program-level blending
(blend same for all participants)
Kelley Direct Online MBA (IU)

Myth #9: There is a best model of blended.
AMA Special Report, Effectively Implementing a Blended Learning Approach
(Steven Shaw & Nicholas Ignieri, 2006)

Framework for organizational development through training
Assess, Learn, and Apply
(Copyright Microsoft, Zimb & Mosher, 2006; Handbook of Blended Learning)
4. The Open U Malaysia (from Abtar Kaur)
- Started August 2001: approx. 800 students
- Total students (2005): approx. 33,000
- Total students (2010): over 85,000
- Total full-time academic staff: 60
- Total part-time academic staff (tutors): approx. 3,000
- 33 Learning Centres (7 Regional Centres)
- Pedagogical approach: Blended Learning

4. Institutional-level Blending (Brian Linquist, 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-to-back with the first meeting of the next 5 week course)

Myth #9: Blended learning in higher education is vastly different from the corporate world.
The IBM Four Tier Learning Model.
Blending Learning for Business Impact - IBM’s case for learning success. Nancy Lewis, VP, & Peter Orton, IBM

Blending Online Is the Solution!

10 Blended Models
Blended Model #1. Face-to-Face Primary
(online is for remediation of supplement)
Blended Model #2. Rotation
(students alternate FTF and Online instruction)

Blended Model #3. Flex
(curriculum primarily online with instructors available FTF)

Blended Model #4. Online Lab
(lab or field experience component of course is online)

Blended Model #5. Self-Blend
(students decide on which courses they take online or which portion of the course is online)

Blended Model #6. Online Driver
(courses primarily online and physical facilities used to supplement or as needed)

Blended Model #7. Bookend
(first and last part of the course is online and middle portion is online; AMA Special Report, Blended Learning Opportunities Alison Rossett (2006))
Blended Model #8. Anchor
(start with FTF or what students are familiar with and then move to online)

Blended Model #9. Field
(combine FTF and online as needed...mix and match)

### Table 3: What Might Each Be Used

- Low learner (traditional)
- Mid learner (course work)
- High learner (independent)

### Table 2: What Might Each Be Used

- Low learner (traditional)
- Mid learner (course work)
- High learner (independent)

### Table 1: What Might Each Be Used

- Low learner (traditional)
- Mid learner (course work)
- High learner (independent)

Recent Reports on Blended

### Myth #10: If you read the enough research you will be able to know the impact of blended learning.

1. Improved Pedagogy
   - Interactive vs. Transmissive environments
   - Authenticity integration into work
2. Increased Access/Flexibility
   - Reduced seat time courses – UCF M courses
3. Increased Cost Effectiveness
   - Corporate: ROI – IBM 47:1, Avaya, Microsoft
   - Higher Ed: PEW Grants
Part II: 13 Fully Online and Blended Learning Problems and 40 Solutions

Problem Situation #1:
Brief FTF Experiences
- Face-to-face (FTF) experiences are brief, one-week journeys. Need to build self-confidence, create social supports, teams, camaraderie, etc.

Ok, Million Dollar Question: What can you do in 1 week?

Blended Solution #1+.
Sample Activities for Brief Meetings
1. Assign web buddies, email pals, critical friends based on interests, confidence, location, etc.
2. Ice breakers—paired introductions, corners.
3. Solve case in team competitions with awards.
4. Test technology in a lab.
5. Assign teams and exchange info for small teams using text messaging.
6. Library (digital and physical) scavenger hunt.
7. Do a podcast documenting the meeting.
8. Have everyone create a blog on the experience.
9. Open an e-portfolio for each student.
10. Brainstorm how might use technology in program.

Problem Situation #2: 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.

Blended Solution #2. Post Courses in YouTube and iTunes (e.g., Berkeley)
Problem Situation #3: 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 #3.
Webcast Lectures and Videostream for Remote Students (Tegrity, Echo360, Mediasite, etc.)

Blended Solution #4.
Alternating FTF and Online Classes

- Freshman English at BYU: Students are required to meet F2F once a week instead of three times a week. Same in a multimedia class at Beijing Normal University (BNU)

Problem Situation #4:
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 #5.
Podcast Shows

Blended Solution #6.
Online Portal Explorations
Blended Solution #7. Virtual Guests (e.g., Skype, Adobe Connect, etc.)

Blended Solution #8. Open Ed Resources & OpenCourseWare

Blended Solution #9. Open Source Photography (e.g., Flickr, Everystockphoto.com; courses on Winter Olympics, photography, geography, culture, meteorology, physics, etc)

Blended Solution #10. Space Portals (e.g., A New Motion Picture of the Universe, With Free Admission for Colleges Large and Small, By Ben Terris, Chronicle of HE, Feb 7, 2010)

From its mountaintop site of Cerro Pachón, in Chile (rendered above), the new telescope will look for dangerous asteroids and help researchers learn more about dark matter and dark energy. The Large Synoptic Survey Telescope has a combination of mirrors and three camera lenses that can capture the movements of billions of stars and galaxies.

Blended Solution #11. Supplemental Lectures (e.g., Academic Earth)

Problem Situation #5: 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 #12. Cross-Institutional Wikibook Project (e.g., IU and the University of Houston)

Blended Solution #13. Online Professional Development (e.g., STARLINK, www.starlinktraining.org)

Blended Solution #14. Simulations and Executive Coaching

Blended Solution #15. Real World Problems (PBL online): Real-time Cases

Blended Solution #16. Tracking the Life of a Scientist (e.g., Brian J Ford, independent scientist)

Problem Situation #6: 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.
**Problem Situation #7: 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 #17. Expert Video Reflections and Scaffolds online (E-Reading First Ohio; reflect, share, and compare)**

**Blended Solution #18. Team and Individual Case Reflections (Kelley Direct, IU)**

**Blended Solution #19. Online Role Play** (Tulane University, Exercise for Renewable Energy, Freeman Sch. of Business, roles include power traders, electric utility analyst, independent power producers & utility dispatchers)

**Blended Solution #20. Working In Virtual Teams** (e.g., Coliasos, SharePoint, Google Docs)

**Blended Solution #21. Global Game Jams, Electronic Computer War Games, etc.**
Problem Situation #8: 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 #25. Scenario Learning (Option 6, Bloomington, IN)

Problem Situation #9: 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 #26. Synchronous Sessions

Blended Solution #27. Guests Using Synchronous and Asynchronous Events (e.g., Breeze + Video + Online Forum + Online Papers)

Blended Solution #28. Synchronous Learning from Instructors, Guides, and Mentors

Problem Situation #10: 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 #29. Explore Virtual Worlds and Online Representations (UCLAs CVRLab, University of Virginia)

Blended Solution #30. Virtual Tours and Timelines (i.e., HyperHistory; http://simile.mit.edu/timeline/)
Blended Solution #31: Simulations and Virtual Worlds Online (e.g., OpenSimulator)
http://opensimulator.org/wiki/Main_Page

Blended Solution #32: Videos and Simulations (e.g., Foldit)
Foldit matches protein folds into the shape that precipitate fold into the results can then help insights on scientific discoveries needed for Alzheimer’s, AIDS, Cancer, etc.
http://fold.it/
http://www.youtube.com/watch?v=10C0ejMPz7c (short version: 4.13 minutes)
http://www.youtube.com/watch?v=Vw7tYDJV6q0 (longer version: 12 minutes)

Blended Solution #33: Shared Online Video Demonstrations (e.g., Monkey See)

Problem Situation #11: 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 #12: 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 #35. Listen and Reflect on Book Author Podcasts

Blended Solution #36. Podcasting Lectures (e.g., School of Dentistry, University of Michigan)

Blended Solution #37. Online Language Learning and Conversations (e.g., PalTalk, iTalki, Palabea, Babbel)

Blended Solution #38. Basic Acoustics of Musical Instruments (University of New South Wales)

Blended Solution #39. Indexing Sounds in Cities with Google Maps

Problem Situation #13: 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.
Blended Solution #40.
Hold & Archive Synchronous Sessions

Trends, Implications, and Challenges for Blended Learning
1. Faculty and students are more mobile.
2. Students more choices.
3. Student expectations rise.
6. Courses increasingly modular.
7. Less predefined schedules.
8. When teaching less clear; when learning less clear.

Again, this talk covered...
1. Definitions of blended learning
2. Advantages and disadvantages
3. Models of blended learning
4. Examples of blended learning
5. Predictions for blended learning
6. Challenges for blended learning

Poll #1: How many ideas did you get?
1. 0 if I am lucky.
2. Just 1.
3. 2, yes, 2...just 2!
4. Do I hear 3? 3!!!!
5. 4-5.
6. 5-10.

Stand and Share...
Ideas to Steal
- Will Work: _____________
- Might Work: _____________
- No Way: _____________

Questions and Comments
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