30 Emerging Learning Technologies

Curtis J. Bonk, Professor, Indiana University
cjbonk@indiana.edu
http://mypage.iu.edu/~cjbonk/

The Next 30 Years, USA Today, Sept 14, 2012
http://www.usatoday.com/video/news/1839139560001

Jobs fight: Haves vs. the have-nots, Tim Mullaney, USA Today, Sept 14, 2012, Marc Andreessen

Creator of Twitter sees blur of change, Jon Swartz, USA Today, Sept 14, 2012
May 5, 2012
Shaq earns doctorate degree
http://www.youtube.com/watch?v=8hGHxu4A4Vs

September 21, 2012
As Online Courses Grow, Sites Offering Unauthorized Academic Help Get More Brazen, Chronicle of Higher Education, Alisha Azevedo

We are entering a jumping off point…from the Web 2.0 to???

Smaller, thinner, lighter, and new interfaces for mobile

We Now Share Expertise in Many Ways (e.g., blogs, wikis, wikibooks, online news, open access journals, etc.)
Virtual Viewbooks
Lyon College: Play Fair
http://www.lyon.edu/playfair1.htm

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http://www.lyon.edu/playfair1.htm

Tech #2. MOOCs. June 18, 2012
Udacity to Launch 5 New Courses, from Statistics to Physics. Shooting for Largest Online Class Ever, Open Culture
http://www.openculture.com/2012/06/udacity_to_launch_5_new_classes.html
April 29, 2012
Open Education’s Wide World of Possibilities, Chronicle of Higher Education, Katherine Mangan

July 17, 2012
Into the Fray, Steve Kolowich, Inside Higher Education

Online University For All Balances Big Goals, Expensive Realities, Claudio Sanchez, NPR, August 27, 2012
http://www.npr.org/blogs/alltechconsidered/2012/08/27/160116814/online-university-for-all-balances-big-goals-expensive-realities
Audio: http://www.npr.org/player/v2/mediaPlayer.html?action=1&t=1&islist=false&id=160116814&m=160135003

September 3, 2012
Before You Jump on the Bandwagon ..., Chronicle of HE, Alison Byerly
http://chronicle.com/article/Before-You-Jump-on-the/134090/

October 15, 2012
Designing a New Learning Environment, Stanford Online, Dr. Paul Kim
http://venture-lab.org/education

Students work at the University of the People student computer center in Haiti. Students from 129 countries are currently enrolled with the institution.

Naylea Omaya Villanueva Sanchez says her location near the Amazon rain forest in Peru, combined with a disability, makes a traditional university education impossible.

How online courses will revolutionize college, Mary Beth Marklein, USA TODAY, September 12, 2012

How online courses will revolutionize college, Mary Beth Marklein, USA TODAY, September 12, 2012

Before You Jump on the Bandwagon ...
By Alison Byerly
http://chronicle.com/article/Before-You-Jump-on-the/134090/

October 15, 2012
Designing a New Learning Environment, Stanford Online, Dr. Paul Kim
http://venture-lab.org/education

The Course
What constitutes learning in the 21st century? Should education be based on delivering content and getting students to remember it, or should it focus on helping students develop skills that will help them succeed in their chosen profession? In this course, we will look at how the modern university is changing, both in terms of technology and pedagogy, and explore the implications for the future of education.

Students will develop a course project, which should reflect a practice they have worked on or want to work on in the future. Their project will be designed to help them meet the goals of the course and reflect the changing environment of education today.

Course Project
A significant project should be developed by each student to reflect the goals of the course and their personal or professional interests. This project must be approved by the instructor and completed by the end of the course.

The Project
The project should be a significant piece of work, either in the form of a presentation, a text, a video, or a combination of any of these. The project should reflect the goals of the course and be relevant to the student’s personal or professional interests.

Presentation
A presentation should be prepared and presented to the class. The presentation should be delivered in a clear and concise manner, and should be based on the student’s project. The presentation should be approximately 20 minutes in length.

Written Work
A written report should be prepared and submitted to the instructor. The report should be approximately 10-15 pages in length, and should be based on the student’s project.

Audio/Video Project
An audio or video project should be prepared and submitted to the instructor. The project should be approximately 5-10 minutes in length, and should be based on the student’s project.

The Project should be submitted to the instructor by the end of the course.

Grading
Grading will be based on the student’s participation in class discussions, the quality of their presentation, and their written report. Students will also be graded on their ability to work in a team, and on their ability to communicate their ideas effectively.

Prerequisites
None.
Edupunk Bloggers, Jim Groom, Instructional Technologist, Mary Washington University; http://jimgroom.net/about/

- Describes growing movement toward high-tech-do-it-yourself education.
- Mainly motivated by astronomical costs of higher education.

The Siege of Academy, Washington Monthly, Kevin Carey, September/October, 2012

ABC News, Google I/O Conference: Project Glass Prototype For Sale

Baig: Apple iPhone 5 makes glowing first impression, Edward Baig, USA Today.

How mobile are you?
Apple’s new ‘spaceship’ campus: What will the neighbors say?, Doug Gross, CNN, May 22, 2012

You can be anywhere


Poll:
Do you suffer from nomophobia?

A. Yes
B. No
Poll: Do any of your immediate family members suffer from nomophobia?
A. Yes
B. No

Are you totally mobile?

Web Conferencing (e.g., team projects, class meetings, language learning, etc.)

Tech #5. Web Conferencing: Dimdim

Video Chat Collaboration (US and Brazilian scholars discuss research)

Synchronous Guest Expert Collaborations
January 29, 2012
Apple’s new electronic textbook initiative just another chapter in a developing story, Herald Times, Mike Leonard

Tech #7. E-Book Readers
January 28, 2011: Amazon: Kindle Books Finally Eclipse Paperbacks, Doug Aamoth
March 2, 2011: Why Amazon would be smart to give away the Kindle, March 4, 2011, CNN Tech, Amy Gahran

Whether a surge in e-book sales can be sustained and what effect it could have on traditional bookstores remains to be seen.

“Some universities require students to use e-textbooks,” Yasmeen Abutaleb, USA Today, August 14, 2012
http://www.usatoday.com/money/markets/story/2012-08-13/etextbooks/57039872/1

Chegg
http://www.chegg.com/

The Global Text Project
http://subtext.com/
December 24, 2010: Tech #9. Social Networking Gaming
CityVille 16.8 million daily users, FarmVille’s 16.4 million. CityVille 61.7 million monthly users, FarmVille 56.8 million users. Mashable.

Tech #10. Shared Online Video. February 21, 2012
Rethinking Learning with Salman Khan
Stanford Graduate School of Business
Khan Academy Founder Finds Simplicity Appeals in Online Education Experimentation
Let’s use video to reinvent education, TED, March 2011
http://www.youtube.com/watch?v=W-vj6BhQa5w
Khan Academy Founder Finds Simplicity Appeals in Online Education Experimentation
Let’s use video to reinvent education, TED, March 2011

March 13, 2012
Educational Videos: TED-Ed
http://education.ted.com/

TV Lesson
(expert videos)

October 2011 (E-learn Conference)
History for Music Lovers, Washington Post
The French Revolution (“Bad Romance” by Lady Gaga)
Trojan Way (“Tainted Love” by Soft Cell)
Charlemagne (“Call Me” by Blondie)
http://www.youtube.com/watch?v=W-vj6BhQa5w
http://www.youtube.com/watch?v=W-vj6BhQa5w
http://www.youtube.com/watch?v=W-vj6BhQa5w

Subtext
http://subtext.com/
What Universities Must Learn About Social Networks, Jay Cross, September 19, 2012, The Evolllution

Increasingly, businesses are looking to more social approaches to employee learning and development. Higher education institutions must capitalize on this shift.

Social-media tools can boost productivity, August 13, 2012, Byron Acohido, USA TODAY

Yammer

Chatter

Socialtext
Tech #12. Online Study Groups
Open Study
http://openstudy.com/

Quizlet
http://quizlet.com/

Tech #13. Mobile Dictionaries
(September 2010, Chronicle of HE)

Tech #14. Student Films and Documentaries
http://vimeo.com/33090590/ (Verily)
http://vimeo.com/33123125 (Anjali)
http://www.youtube.com/watch?v=IQZHvuZ3rbw&feature=youtu.be (Yue)

Tech #15. Collaborate using Wikis: Google Docs

Tech #16. Collaboration and Sharing: SlideShare
**Tech #17. Group or Team Collaboration and Sharing: Ning**

Ning in Education

Using Ning for Education Social Networks

**Global Project Collab Teams**

(Columbia University engineering and computer science student collaboration with the Indian Institute of Technology Madras, the Helsinki University of Technology (HUT), the University of Twente in the Netherlands)

John E. Taylor, Director of the Project Network Dynamics Lab

**Tech #18. Wikibook Collaborations**

Collaborate using Wikis:

PBworks

Collaborate using Wikis:

Wikispaces
Tech #19. Online Communication: Skype

Online Communication: Google Chat

GroupTweet (freely communicate and collaborate privately)

Tech #20. Twitter (microblogging)

Tech #21. Facebook Fan Pages (class, department, university collaboration sites)
Tech #22. Virtual Mentoring
South African teens get virtual mentoring from all over the world, By Danielle Berger, CNN, January 14, 2011

Online Mentoring, June 3, 2012
Tutor/Mentor Connection (Chicago)
http://www.tutormentorprogramlocator.net/InteractiveMap.aspx

Tech #23. Adventure Learning
(e.g., Aaron Doering, Univ of Minnesota)

Ice Stories Project
(Exploratorium)

Tech #24. Online Photomedia Projects
(Omnium, Univ of New South Wales)

Tech #25. Virtual Worlds
(e.g., Air University in Second Life)
Class Meetings with Experts in Virtual Worlds

Tech #26. Using Blogs

Blogger

Create a blog. It's free.

Your blog: Share your thoughts, photos, and more with your friends and the world.

Easy to use: It's easy to post text, photos, and videos from the web or your mobile phone.

Flexible: Edmodo allows you to personalize your blog with themes, layout, and more.

Using Blogs: Word Press

Word Press is a state-of-the-art publishing platform with a focus on aesthetics, community, and usability. Word Press is built with the power of the web at its core.

Edmodo (effectively makes password protected groups of blogs; polling, instant messaging, mobile access, class calendars, etc.)

Tech #27. Vlogs (Blogs with video)

Google Art Project, NBC Nightly News

http://www.msnbc.msn.com/id/3032619/vp/46945508#46945508
Tech #29. Media Tools: Timelines, Maps, Pics, Videos, etc. (e.g., USA Today, August 26, 2011)

Interactive Event Timeline
Arab spring: an interactive timeline of Middle East protests, The Guardian, Garry Blight & Sheila Pulham, July 12, 2011
http://www.guardian.co.uk/world/interactive/2011/mar/22/middle-east-protest-interactive-timeline

Tech #30. Online Language Learning (e.g., 300,000 people per month listening to ChinesePod, co-hosted by Jenny Zhu, John Pasden, and Ken Carroll)

Poll. How many ideas did you get from this talk?
A. 0 if I am lucky.
B. Just 1 or 2.
C. Do I hear 3-5? 3!!!!
D. 6-10.
E. More than 10.

The World is Open!
Write to me with questions and comment cjbonk@indiana.edu
http://mypage.iu.edu/~cjbonk/