Spring of 2019 (updated: Jan 14, 2019; 76 pages): R678 Only 3 Credits
Emerging Learning Technologies (The Famed "Monster Syllabus")
Indiana University, School of Education, Room 2101
Section 8743 FTF, Canvas: https://iu.instructure.com/courses/1772486
Section 10173 Online, Canvas: https://iu.instructure.com/courses/1772485
General Course Link to Canvas: http://canvas.iu.edu/

Instructor: Curt Bonk, Professor, Instructional Systems Technology Dept.
Office Hours and Optional Virtual Sessions in Zoom: https://IU.zoom.us/j/812322878

Participant Bios and Interests: http://www.trainingshare.com/r678bios.php
Online Role Play: http://www.trainingshare.com/r678roles.php
Dropbox link for course files: https://www.dropbox.com/sh/prlxtgixwjb1g4p/AACU4yTbPyf444fEe0hi4noxq?dl=0 l=0

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Course Description and Rationale:
Instead of passive consumption-based learning, we are living in a participatory age where learners have a voice and potentially some degree of ownership over their own learning. Here at the start of the twenty-first century, emerging technologies and activities—such as blogs, wikis, podcasts, ebooks, YouTube videos, massive open online courses (MOOCs), simulations, virtual worlds, and wireless and mobile computing—are generating waves of new opportunities in higher education, K-12 schools, corporate training, and other learning environments.

And today’s millennial learner, immersed in an increasingly digital world is seeking richer and more engaging learning experiences; and now the new “phigital” learner who is equally at home in the digital as well as physical world. Amid this rising tide of expectations, instructors across educational sectors are exploring and sharing innovative ways to use technology to foster interaction, collaboration, and increased excitement for learning. It is time to take advantage of the new participatory learning culture where learners build, tinker with, explore, share, and collaborate with others online. It is also time to utilize free and open educational resources, opencourseware, learning portals, and open source software.
across educational sectors and income levels. Some of you will create and publish a cross-cultural Wikibook. Others will create video blogs, and still others will design YouTube-like videos. Some might even flip their classrooms. Still others will enroll in or perhaps even teach a massive open online course (MOOC).

The syllabus for this course is purposefully long. I refer to it as “the monster syllabus.” I will be your online concierge or guide through masses of online resources. In an age when eyeball-to-eyeball learning is no longer necessary, effective online instructors do not simply teach, but moderate, coach, and assist in the learning process. Today a teacher, trainer, professor, or instructional designer often assumes the role of concierge with a wealth of freely available tools and resources to guide her learners. Or perhaps, after reading through this syllabus, you might be more inclined to call such a person a “curator” of quality content. Still others might focus on the “counseling” skills needed to help guide learners through their assorted instructional options. In this more open twenty-first century learning world, anyone can learn anything from anyone else at any time.

Course Goals and Objectives
After the course, students should be able to many of the items below (not all):

1. Explain and demonstrate the educational benefits of emerging learning technologies such as virtual games, augmented reality, synchronous conferencing, online tutorials, podcasts, wikis, blogs, virtual worlds, simulations, social networking software, digital books, mobile books, etc.
2. Track and report on trends related to emerging learning technologies.
3. Frame learning technology trends and issues from broader psychological, social, cultural, and educational perspectives.
4. Critique articles and review books related to emerging learning technologies.
5. Use, recommend, or create online resources and portals in a variety of educational settings.
6. Design an innovative research or evaluation project related to online learning:
7. Successfully submit research, grant, and other proposals related to learning technologies, open education (e.g., open textbooks), MOOCs, e-learning, etc. to conferences, foundations, summits, or institutes.
8. Recognize and potentially contact many of the key players and scholars in the field of online learning, open education, MOOCs, and emerging learning technologies.
9. Consult with organizations to develop strategic plans or evaluate the effectiveness of e-learning courses, programs, and events as well as MOOCs, open education, Web 2.0 technologies, etc.
10. Make recommendations regarding online learning initiatives, programs, and strategies as well as various emerging learning technologies, open educational resources, and innovative and nontraditional forms of educational delivery.
11. Obtain a model, guide, or framework for thinking about new technology tools and resources in education. Use this framework for strategic planning reports, retreats, consulting, and other situations where a macro lens on learning technology and educational reform is needed.
12. Obtain the skills to train fellow teachers as well as learners in emerging learning technologies and pedagogically effective instructional activities and approaches.

Required Texts (none)
Required Videos (you select)
Required Journal Article (you pick from a list)
Nothing required!!! The world of learning should be FREE!
Books that I will refer to (don’t buy them):


Perhaps get this FREE one instead (it is free in English and Chinese):


Curt Bonk’s List of journals in educational technology and related fields: [http://www.trainingshare.com/resources/distance_ed_journals_and_online_learning_books.htm](http://www.trainingshare.com/resources/distance_ed_journals_and_online_learning_books.htm)

Curt Bonk’s 27 free 10 minute videos on how to teach online:

“Video Primers in an Online Repository for e-Teaching and Learning” (V-PORTAL)

1. Watch & Find Resources in Bonk’s YouTube Channel: [http://www.youtube.com/user/TravelinEdMan](http://www.youtube.com/user/TravelinEdMan)

2. Read about Possible Uses: [http://www.trainingshare.com/keynotes.php#tasel](http://www.trainingshare.com/keynotes.php#tasel)

Technology Tools (we might try out):

1. Flipgrid: [https://info.flipgrid.com/](https://info.flipgrid.com/)

2. GoAnimate: [https://goanimate.com/](https://goanimate.com/)


5. PhET Interactive Simulations: [https://phet.colorado.edu/](https://phet.colorado.edu/)

6. Screencastify: [https://www.screencastify.com/](https://www.screencastify.com/)

7. Sli.do: [https://www.sli.do/](https://www.sli.do/)


10. Vialogues: [https://vialogues.com/](https://vialogues.com/)

11. Virtually Inspired: [https://virtuallyinspired.org/](https://virtuallyinspired.org/)

12. WeVideo: [https://www.wevideo.com/](https://www.wevideo.com/)

*Video Resources and Portals (75+ shared online video portals):* [http://www.trainingshare.com/resources/Summary_of_Ways_to_Use_Shared_Online_Video.htm](http://www.trainingshare.com/resources/Summary_of_Ways_to_Use_Shared_Online_Video.htm) (e.g., YouTube EDU, TeacherTube, Link TV, Book TV, Clip Chef, Big Think, TV Lesson, Wonder How To, National Geographic videos, CNN videos, BBC News, Video, and Audio, Academic Earth, etc.)
Summary of Course Tasks, Due Dates, and Grading

<table>
<thead>
<tr>
<th>Tasks</th>
<th>Points</th>
<th>Due dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Tidbit and Video Reflection Paper</td>
<td>40</td>
<td>February 25 (+1 day grace)</td>
</tr>
<tr>
<td>B. Discussion Activities (FTF students) or Discussion Moderator (online students: <a href="http://www.trainingshare.com/r685.php">http://www.trainingshare.com/r685.php</a>)</td>
<td>40</td>
<td>Sign up or as arranged</td>
</tr>
<tr>
<td>C. Discussion Participation in Canvas or in Class</td>
<td>40</td>
<td>(due each week)</td>
</tr>
<tr>
<td>D. Discussion and Lecture Reflection Paper</td>
<td>50</td>
<td>April 22 (+1 day grace)</td>
</tr>
<tr>
<td>E. Report or Strategic Plan Analysis</td>
<td>60</td>
<td>February 25 (+1 day grace)</td>
</tr>
<tr>
<td>F. Final: Wikibook, MOOC Project, Video, or Personal Selected Task</td>
<td>70</td>
<td>April 22 (+1 day grace)</td>
</tr>
</tbody>
</table>

Total Points 300

Total points will determine your final grade. I will use the following grading scale:

- A+ = 300 high score
- A = 280 points
- A- = 270 points
- B+ = 260 points
- B = 250 points
- C = 220 points
- C- = 210 points
- B- = 240 points
- A- = 270 points
- F/FN = no work rec’d or signif. inadequate/impaired

Lateness Policy: I usually accept anything turned in within 24 hours of the original due date. After that, students lose 2 points for each day that it is past due without an approved reason.

Directions: Optional Zoom lecture recorded each Tuesday at 7:00-9:45 pm:
1. From Google Chrome (preferred) or from Firefox. Internet Explorer should also work.
2. Go to Zoom link: https://IU.zoom.us/j/8123222878
3. Type your name. Show video (optional--recommended). Mute mic (unless speaking).

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Projected Seminar Weekly Topics

Week 1. (January 7) Introduction to the Open World: Visionaries and Visions
Week 2. (January 14) Alternate Reality Learning: AR, VR, Gaming, and Simulations
Week 3. (January 21) Open Textbooks, E-Books, and Digitally Enhanced Books
Week 4. (January 28) The Expansion of Blended and Fully Online Learning
Week 5. (February 4) Extreme, Nontraditional, and Adventure Learning
Week 6. (February 11) Open Educational Resources (OER) and OpenCourseWare (OCW)
Week 7. (February 18) Open Education and Massive Online Courses (MOOCs)
Week 8. (February 25) More MOOCs and Open Education Around the World
Week 9. (March 4) Open Education in the Developing World (i.e., Emerging Economies)
Week 10. (March 18) Informal & Self-Directed Online Learning Environments (includes: language lrnng)
Week 11. (March 25) Connectivism, Social Media, and Participatory Learning
Week 12. (April 1) Interactive, Global, and Collaborative Learning (including wikis and learning spaces)
Week 13. (April 8) Mobile, Wireless, and Ubiquitous Learning

Note: Learners and participants in this class can find their own articles for any week of the course and ignore any assigned articles in the syllabus. Please share what you find. Best of luck in your journeys.
Class Tasks

A. Tidbit and Video Reflection Paper (40 points: Due February 25)

Tidbits and Videos (40 points): Besides reading 3-4 assigned articles each week, during the semester, I want you to read at least 80 total tidbits during the semester from the list of tidbit readings or about 5 or 6 per week (preferably more than 80 tidbit articles; about half of which should be from tidbits from weeks in March and April). Typically, these are very short online news or magazine articles. I also want you to watch at least 5 videos listed below related to our course (or similar ones that you find). On February 25, you will turn in a list of your top 40 tidbits read so far (best ones at the top; including at least 10 from March and April…i.e., you must read ahead a bit) and top 2-3 videos watched. You might also note a few tidbits that you did not enjoy. After those lists, I want you to reflect for 1-2 single spaced pages on what you learned from those tidbits. I am not asking you to summarize each article or video; instead reflect on your learning in general. What themes, trends, or concepts were clarified for you? What new insights did you gain? What inspirations did you feel? You might include brief comments at the beginning or end of the paper on why you ranked the tidbits and videos the way you did. I will send an email with examples upon request. Be creative. Take a look at the examples provided. Post your tidbit reflection to Canvas or your Dropbox account or send to me via email.

B. Discussion Moderation and Activities (40 points)

Face-to-Face Students: You will get involved in weekly tasks in class as group leaders and team members. Face-to-face students will also create posters of key articles, select and bring in quotes from these articles, or offer questions for panel discussions for these 40 points. The instructor will assign these most weeks at the start of end of class. 40 points for weekly tasks like bringing questions or posters or article summaries. In effect, these 40 points are for artifact creation, class involvement, leadership, and engagement.

Online Students: You will start and moderate discussion for your 40 points (40 points): At the start of each week, I want one person in the online section of this class to post a short summary to Canvas on at least 4 of the main articles assigned for that week. That person is the starter for discussion. Other students will add to their conversation with their reflections and reactions. As a summarizer or starter, you might: (1) state reactions, questions, and suggestions for the upcoming readings; (2) point out the relationship of upcoming week topic or articles to past lectures or readings; (3) discuss the position of a researcher or pioneer in the field (or perhaps even write to him/her); (4) discuss a recent speech or colloquium you attended related to the week or a visit to a technology center or exhibit; or (5) generally relate the articles for the week to prior learning and discussion in the course. At the end of the week, you might react and reflect on the class discussion that transpired as well as the questions and concerns raised. You can sign up for this task at: http://www.trainingshare.com/r685.php

Sample Discussion Moderator Recap:
1. Prezi from Thuy Han for R678 class Week 4 (February 8, 2015):
   https://prezi.com/r4vkwqolkrn9/httpswebarchiveorgweb20040303191129httpwwwnetco/?utm_campaign=share&utm_medium=copy
2. Jennifer Webeck, April 2, 2015, As an overview of our discussion in bubbl.us:
   https://bubbl.us/mindmap?h=290e70/52c975/26iy7HLValyo
C. Participation in Canvas or in Class (40 points)

Face-to-Face student course participation in class (40 points): Students in the face-to-face section will participate in class discussion on Monday nights for 40 points as follows: 36-40 for high participators; 32-36 for medium participators; 28-32 for low participators; and 0-31 for others. It is optional to post to the online forums.

Online student course participation in Canvas (40 points): We will do discussions each week in either Canvas. This is worth 40 points as follows: 36-40 for high participators; 32-36 for medium participators; 28-32 for low participators; and 0-31 for others. Course participation includes contributing to the online discussion in Canvas, sharing resources, responding to peers, providing feedback on tasks and resource recommendations, and so on. While these will be mainly assessed as to the number of posts, I will also take into consideration qualitative factors such as those listed below.

Participation considerations:
1. Diversity (some variety in ideas posted, and some breadth to exploration);
2. Perspective taking (values other perspectives, ideas, cultures, etc.);
3. Creativity (original, unique, and novel ideas);
4. Insightful (makes interesting, astute, and sagacious observations).
5. Relevancy (topics selected are connected to course content); and
6. Learning Depth/Growth (shows some depth to thinking and elaboration of ideas);

D. Discussion and Lecture Reflection (50 points: Due April 22)

Discussion and Lecture Reflection Paper (50 points): At the end of the semester, you are to reflect on what you learned from weekly discussions in Canvas or in class each week as well as from my recorded lectures and discussions that I will deliver each week via videoconferencing. You should include at least 7 of the weeks in your reflection. What were the ideas, issues, concepts, facts, figures, diagrams, etc., that struck a chord with you? What did you learn during the semester? How did your thinking change in a particular week or over time? What inspired you? What did you find disappointing? What is next?

Using these questions as a guide, please write a 3 page single-spaced reflection paper (not counting any references, appendices, or tables created) on this activity by April 22 (50 points). Though not required, it would help if you included a fourth page with a recap table, chart, figure, or some type of summary of key themes, concepts, terms, etc., mentioned in the reflection paper. This is to be a meta-reflection of your growth in the course, unique learning insights, personal gains, etc., at least in part, from your weekly discussions and responding to your peers. What were the key concepts you grappled with this semester? How has your thinking evolved? What are the gaps in the research that you might target now? What weeks or particular articles inspired you and why? Post your reflection paper to Canvas or your Dropbox account or send to me via email.

Reflection Paper Grading Criteria (50 Points; 10 points each):
1. Relevancy to class: meaningful examples, relationships drawn, interlinkages, connecting weekly ideas.
2. Insightful, Interesting, Reflective, Emotional: honest, self-awareness, interesting observations.
3. Learning Depth/Growth: takes thoughts along to new heights, exploration, breadth & depth, growth.
5. Connections: linking threads in the discussion, lectures, and readings.
E. Report or Strategic Plan Analysis or Naturalistic Study or Critique or Other (60 pts—Due February 25; encouraged to work in teams)

Midterm Option 1. Summary Report or Strategic Plan Evaluation, Critique, and Extension

Find and evaluate a summary report, technical report, or a strategic plan of a company, university, non-profit organization, school, state, province, country, or region related to e-learning, blended learning, mobile learning, or emerging learning technologies of some type and critique it. For instance, you might pick the state or country where you were born or perhaps where you plan to live after graduation. You might find the strategic plan online or request a hardcopy version. I want you to not simply read and critique the report but to also interview someone who created it or is/was affected by that report. You might discuss and critique the online learning technologies highlighted, proposed pedagogical plans, intended training methods, targeted skills or competencies, or evaluation methods detailed. You might visit the organization or write someone an email. What might this organization do differently in planning for e-learning or using some emerging learning technology? Has there been an update? You are encouraged to work in teams on this report. When done, you will present an overview of the report to the class. Testimonials, graphs and trends of indicated growth, comparisons, and other data or handouts are welcome. You are also encouraged to directly contact the organization that developed the report or plan and receive additional product information (e.g., DVDs, brochures, white papers, technical reports, product comparison sheets, videotapes, company annual report, customer testimonies, data sheets, Web site information, etc.). Your evaluation, critique, and extension paper should be 4-6 single-spaced pages (excluding references and appendices; those working in teams are expected to have 7-10 single spaced page papers, not counting references and appendices). Please post it to Canvas, Dropbox, or send to me via email by February 25th.

Sample reports (see also OER reports listed in Week 6):

2. United States National Education Technology Plan: https://tech.ed.gov/netp/

Summary Report/Strategic Plan Grading (10 pts for each of the following dimensions)

1. Review of Plan or Document (clarity, related to class, organized, facts, data, relevant, style)
2. Relevant Resources and Digging (citations/refs, linkages to class concepts, extensive)
3. Soundness of Critique (depth, clear, complete, practical, detailed, important, coherence)
4. Creativity and Richness of Ideas (richness of information, elaboration, originality, unique)
5. Knowledge of Topic (learning breadth & depth, growth, displays understanding of topic)
6. Recommendations, Insights, and Implications (contains relevant recommendations, guides)
Midterm Option 2. Naturalistic Study

You have options to the midterm. For instance, you might perform a case study or pilot observation of workers, students, etc. using tools or instructors interacting with employees, students, other instructors, etc. while they use a web-based learning tool, resources, project, or curriculum application. For instance, you might decide to complete a case study of a child, young person, or adult using a particular learning tool for the first time. Such naturalistic studies should include at least five careful observations and commentary of the person and tutor/teacher. The commentary should reflect your learning and provide insights as to how to make this tool more educationally meaningful. If you are looking at student-teacher-tool interaction patterns, teacher guidance, or simply tool use, you will need to design coding schemes and observation log sheets to help interpret tool functionality in this environment.

When done with your brief study, you might interview an instructor, learner, instructional designer, or some other person in that environment about the phenomenon that you observed. Interviewees might come from corporate, K-12, military, government, or higher education settings. These optional interviews can be live (face-to-face), via videoconferencing, phone- or Skype-based, or conducted through email.

Your naturalistic study report should be 4-7 single-spaced pages (excluding references and appendices; those working in teams are expected to have 7-10 page papers, not counting references and appendices). In your report, I want you to reflect on what you learned about e-learning from this assignment. How has it opened your eyes? What might you have done differently next time in your study? What recommendations do you have and what implications do you see? How might you put your new ideas to use in training programs or in your own future teaching? Please post it to Canvas or your Dropbox account or send to me via email on or before February 25th.

Sample Format Naturalistic/Research Activities:

I. Title Page (Name, affiliation, topic title, acknowledgements)
II. Topic Literature and Method
   1. Res topic & materials;
   2. Brief stmt of problem and why impt
   3. Brief review of the relevant literature
   4. Methods:
      a. Subjects & design (i.e., who/how selected);
      b. Materials/setting (i.e., hard/software, text)
      c. Procedure (i.e., how data was obtained)
      d. Coding Schemes & Dep. meas/instr (i.e., how segment/code data);
      e. Analyses or comparisons
III. Results and Discussion 1. Preliminary Results; 2. Discussion of results
IV. References (APA style: see syllabus for example)
V. Appendices (e.g., pictures, charts, figures, models, tests, scoring criteria, coding procedures)

Sample Grading of Major Project (60 Total Points or 10 pts each dimension):
1. Review of the Problem/Lit/Purpose (interesting, relevant, current, organized, thorough, grounded)
2. Hypothesis/Research Questions/Intentions (clear, related to class and theory, current, extend field)
3. Method/Procedures (subjects/age groups approp, materials relevant, timeline sufficient, controls)
4. Research Activity/Design/Topic/Tool (clear, double/practical, detailed, important)
5. Overall Richness of Ideas (richness of information, elaboration, originality, unique)
6. Overall Coherence and Completeness (unity, organization, logical sequence, synthesis, style, accurate)
**Midterm Option 3: Review or Critique**

A third option is to review and critique a special journal issue, a special conference symposium or summit, or edited book related to any week of this course. What are the strengths and weaknesses of it? Why or why not would you recommend that others read or explore it? How does the content of it relate to R678 content? If you choose this option, please run the special issue, symposium, summit, or book that you selected by the instructor. This critique will be a 4-6 page single spaced report. This is due Monday February 25th.

**Note:** See below for examples of special issues on Massive Open Online Courses (MOOCs) that you might read and critique. These special issues are from the *Journal of Online Learning and Teaching* (JOLT) and the *International Review of Research on Open and Distributed Learning* (IRRODL).

- JOLT: June 2013, 9(2), [http://jolt.merlot.org/Vol9_No2.htm](http://jolt.merlot.org/Vol9_No2.htm)
- JOLT: March 2014, 10(1), [http://jolt.merlot.org/Vol10_No1.htm](http://jolt.merlot.org/Vol10_No1.htm)

**Midterm Option 4: Software or Technology Tool Review**

In the fourth option, you are to review at least 3 emerging technologies for learning. What are the key features? How could they each impact on education? What skills do they potentially enhance? What audience do they each serve? Who are the stakeholders? List at least 5 pedagogical ways in which each of these tools or applications can be used in education or training? For each emerging technology, please identify at least 3 features you like best and explain why and how these features can foster or enhance teaching and learning. Please also list at least 3 features you think need improvement and detail why and what can be done to add, modify, change, or delete different features. You should also detail how you would redesign these technology tools or products to improve them for educational use if you were the educational product designer. This review will be a 4-6 page single spaced report (excluding references and appendices; those working in teams are expected to have 7-10 single spaced page papers). This is due Monday February 25.

For a list of emerging educational technology companies, please see:

Midterm Option 5: Other (requires instructor approval)
Other options to the midterm might be grant proposals, research interventions (as opposed to observations), technology tool design proposals, curriculum integration plans, or conference research papers. If one of these appeals to you, please write to the instructor for additional information and guidance. This is due Monday February 25th.

F. Web 2.0 Final Project (70 points—Due April 22; project recommended to be conducted with a partner, unless approved by the instructor)
Related resource on open pedagogy: https://openedgroup.org/oer-enabled-pedagogy
https://www.yearofopen.org/april-open-perspective-what-is-open-pedagogy/

Option 1. Pressbook assignment
Do you want to be an author? Do you want to be famous? In this assignment, you will create an open textbook related to emerging technologies using Pressbook. If the textbook can also be related to your current job or research interest it would be perfect. You can share this textbook with your colleagues, students, classmates, or families. You can also put your Pressbook link in your resume. Maybe your open textbook can be used as next years’ assignment examples! For this assignment, you can have at least two chapters. In total, it should be a minimum of 3,000 words. If you work in a team, each of you should contribute at least 2,000 words. A 1-2 single-spaced reflection paper from each student on what you learned from this Pressbook activity needs to be included (not counting references and appendices). Describe what you learned from the task including specific course concepts and ideas mentioned in your chapter as well as ideas related to open educational resources. If you work in a team, attached to your reflection paper will be documentation of what you contributed to the Pressbook. Your paper and chapter will be graded according to the dimensions listed below.

Example (note: you do not have to include so much content like the examples):

- The Open Anthology of Earlier American Literature (https://openamlit.pressbooks.com/) was created by Robin DeRosa and her students.
- Project Management for Instructional Designers (https://pm4id.org/) was created by David Wiley and his students as an adaptation of an existing open textbook written for a different audience.

Pressbook Grading (70 Total Points or 10 pts each dimension):
1. Chapter and reflection paper relevance: Contribution is meaningful to class, we learn from it
2. Chapter and reflection paper coherence: flow, well organized, good layout, enjoyable to read
3. Chapter and reflection paper completeness: Sufficient coverage of info, extends topic & class
4. Overall chapter creativity: Original and distinctive ideas, insightful points, something unique in it such as a figure, model, graph, timeline, comparison chart, acronym, quote or set of quotes, etc.
5. Overall reflection paper insightfulness, depth of thought, flow, informational content, etc.
6. Shared and discussed in Canvas or in Class
7. Effort, digging, extensiveness of the project, etc.

Option 2. Wikibook Online Work (WOW)
In this option, you help with a Wikibook related to emerging technologies. About seven years ago, students from five universities designed a wikibook on “The Web 2.0 and Emerging Learning
Technologies” (The WELT); see http://en.wikibooks.org/wiki/Web_2.0_and_Emerging_Learning_Technologies. If you write a unique chapter for the WELT, it should be a minimum of 2,000 words. A 2-3 page reflection paper (3-4 pages if with a partner) on what you learned from this wikibook activity needs to be included (not counting references and appendices). Describe what you learned from the task including specific course concepts and ideas mentioned in your chapter as well as ideas related to the social construction of knowledge. Attached to your reflection paper will be documentation of what you contributed to the wikibook, including your chapter (with highlights or special notations of your contribution), highlights to the chapters worked on, and perhaps even print outs of the wikibook chapter editing history. Your paper and chapter will be graded according to the dimensions listed below.

Example:
Robert Halford, Spring 2015, Wikibook Chapter on Professional Development:
https://en.wikibooks.org/wiki/Web_2.0_and_Emerging_Learning_Technologies/Professional_Development#Technology_as_a_tool_for_learning
Greg Snow, Korea, Spring 2016, Wikibook Chapter on Virtual Reality,
https://en.wikibooks.org/wiki/Virtual_Reality
Luci Mello, April 26, 2017, Mobile Learning (mash-up),
https://www.softchalkcloud.com/lesson/serve/eqpRyOTbxGsCmr/html
https://en.wikibooks.org/wiki/Mobile_Learning

Wikibook Grading (70 Total Points or 10 pts each dimension):
1. Chapter and reflection paper relevance: Contribution is meaningful to class, we learn from it
2. Chapter and reflection paper coherence: flow, well organized, good layout, enjoyable to read
3. Chapter and reflection paper completeness: Sufficient coverage of info, extends topic and class
4. Overall chapter creativity: Original and distinctive ideas, insightful points, something unique in it such as a figure, model, graph, timeline, comparison chart, acronym, quote or set of quotes, etc.
5. Overall reflection paper insightfulness, depth of thought, flow, informational content, etc.
6. Shared and discussed in Canvas and in Class
7. Overall quality of assignment

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Option 3. Cool YouTube Video Creation

So you want to be cool? You want to be creative? In this option, you are to create a shared online video (e.g., YouTube) related to this class. You cannot be the only person in it. What do different topics in this course mean to you? Alternatively, you can design a YouTube video for someone else. You should post this video of at least 5 minutes in length. You will turn in a 2-3 page single-spaced summary reflection of your design (3-4 pages if with a partner). Your video and paper will be graded according to the dimensions listed below.

Video Grading (70 Total Points or 10 pts each dimension):
1. Insightfulness, creativity, and originality;
2. Design and visual effects;
3. Coherence and logical sequence;
4. Completeness;
5. Relevance and accuracy of the content;
6. Shared and discussed in Canvas and in class;
7. Overall quality of assignment
YouTube Video Final Project Examples (from R685 from 2010, 2011, 2012, 2016, etc.):
1. Julie Rust (Participatory Learning): http://www.youtube.com/watch?v=cHx_SbRWWW0M
2. Lynn Deno: Tech, Enhancing Home School: http://www.youtube.com/watch?v=ts45BkAnqTs
3. Miguel Lara (Web 2.0 FREEDOM): http://www.youtube.com/watch?v=8cmCFWi9IW8
4. Olgun Sadik (R685 overview): http://www.youtube.com/watch?v=unaBQlqvYo8Y
5. Shuya Xu and Yue Ma (Blog my online lrmg): http://www.youtube.com/watch?v=im7QQM9fzhc
6. Verily Tan, Recollections from R685, Fall 2011; http://vimeo.com/33090590/

Option 4. R685/R678 Course Syllabi Historical Evaluation:
Perhaps, like me, you like history. A version R678 was first co-taught at West Virginia University by Dr. W. Michael Reed and myself back in the fall of 1990. Since that time, this course has evolved into many formats. Below are links to more than a dozen syllabi from the course including the present one. Unfortunately, I have yet to locate the original version but did find an outline of the topics addressed. If you select this option, I want you to track the history of this course over time. For instance, you might explore the topics, people, concepts, etc., that were popular in the 1990s, 2000s, and today. You will turn in a 4 to 6 page single spaced paper on what you discovered (7-10 pages with a partner); not counting references and appendices. Additional pages may be attached such as reference lists, visuals depictions mapping out trends over time, correspondences with researchers about their articles from previous versions of the course, and interviews with scholars about their perceptions of changes in the field over time. You might, in fact, gather oral histories or accounts from experts as well as former students about how the field has changed.

Many questions can be asked. Among them, are there any topics that remain popular over the past two decades? How did the focus of this course change over time? Is this course more or less important today than it was back in the 1990s? Is the total number of pages any indicator of how the field has changed? If so, in what ways? Please compare the tasks from 1995 to those in 2001 or 2002 as well as 2010, 2015, 2017, and 2019. Please look at the books, journals, new sources, online resources, etc. that now comprise this course and note how they have changed over time. Is there anything from the 1990s that remains important today and should be added back to the current syllabus? Are there any tasks, activities, or articles that you found interesting and want to know more about? Is there anything that remains missing despite the fact that the current syllabus is now over 60 pages long? What do see about the field of education or educational technology from browsing through these syllabi and resources?

You should end your paper with 1-2 page single spaced reflection of your own learning in this course. Included in that summary should be an account of what inspired or mattered to you. In addition, you might reflect on the areas wherein you learned or grew the most during the semester.
Sample Prior P600/R685/R678 Syllabi:

15. Fall 2003: http://php.indiana.edu/~cjbonk/p600syl2.htm

History Evaluation Grading (70 Total Points or 10 pts each dimension):

1. Insightfulness, creativity, and originality;
2. Learning growth displayed;
3. Coherence and logical sequence;
4. Completeness and fulfills spirit of the assignment;
5. Relevance and accuracy of the content;
6. Shared and discussed in Canvas and in class;
7. Overall quality of assignment

Option 5. Analysis of Issues and Challenges in the Field of Learning Technologies:
In this option, you will identify and briefly outline 10-20 key issues in the field (e.g., institutional supports for nontraditional learners, corporate recognition of microcredentials and nanodegrees, faculty awareness of open textbooks and OER, cost effectiveness and consumer utility of virtual and augmented reality, teacher training for online and blended forms of learning; instructional design challenges for MOOC instructors and the instructional support team, etc.). What are the issues that you have noticed when doing the readings for this class, watching the videos, talking to your peers, and attending the lectures? What are some open research questions? To create an historical context for your paper, you might indicate in a timeline when each of these issues arose or potentially make become more salient in the future. You will turn in a 4-6 single spaced paper if working alone and 7-10 page paper if with a partner (plus any references, charts, graphs, appendices, etc.) on the issues and challenges in the field of emerging learning technologies. Meina Zhu and I want to know if you have a grasp of the key issues. We also want to know what your role might be in resolving these challenges or issues after graduation. Among these issues and challenges, choose one or two that you are highly interested in or want to address most and describe your possible plan on addressing them or map out some possible future research. Finally, please do not limit your references to our assigned course readings. You are encouraged to add at least half of your references from articles, books, and other resources that are not listed in our
class readings. A minimum of 15 references should be used. Please follow APA guidelines when writing your paper. (Note: It will use a similar grading rubric to those above.)

**Option 6. Student Selection Option (e.g., Usable Class Product):**

Students choosing Option 4 might design their own final project or combine ideas together into something truly unique (i.e., a mash-up). As part of this effort, they might create or perform a meaningful activity for the class. For example, you might summarize the learning principles embedded in different articles or readings for each week of the course. Or, they might create a unique categorization scheme of the technology tools and resources studied during the semester. The more ambitious of you might create an interactive multimedia glossary or comprehensive Website for the course as an individual or as part of a team. Still others might create an online database of articles from two or more open access journals related to emerging learning technologies including links to the major themes and trends in those journals over a significant period of time (e.g., 3-5 years).

There are still more options. Among them, you might create a mobile application, an educational activity in a virtual world, an interesting global collaboration activity or partnership, or a mobile book. Others might organize a class mini-conference or real conference symposium or demonstrate a set of e-learning tools to your school, company, or organization and then reflect on it. Such tools might have relevance in K-12, military, corporate, or higher education settings or perhaps in more informal settings such as a museum, zoo, or computer club.

You might also engage in a major problem-based learning project related to this class with a school, company, organization, or institution. In this option, you make the contact and find out what needs to be resolved and then get it approved by the instructor. The final product might be a distance learning evaluation project. It might involve the design of e-learning tools and resources. It might entail the creation of a strategic plan, white paper, or vision statement. Whatever the problem or task, it must be authentic. Anyone selecting this option should include a 2-4 page single-spaced reflection paper on what you learned; slightly longer with a partner (not counting references and appendices). Note: any final project report to an organization or institution can substitute for that final reflection paper. The grading scheme will be project specific.

**Student Selected Option Examples:**

1. Abdullah Altuwaijri (Prezi on class): [http://prezi.com/8h7grxlyaymv/the-world-is-open/](http://prezi.com/8h7grxlyaymv/the-world-is-open/)
9. Jill Kaufman, April 26, 2015, The World is Open, [https://www.youtube.com/watch?v=ZRGV0Mg5Vmw&feature=youtu.be](https://www.youtube.com/watch?v=ZRGV0Mg5Vmw&feature=youtu.be)
10. John Falchi, March 12, 2016, Timeglider, An Abbreviated History of Distance Education [http://timeglider.com/t/50843d8903a48008?min_zoom=1&max_zoom=100](http://timeglider.com/t/50843d8903a48008?min_zoom=1&max_zoom=100)
11. Meina Zhu, April 27, 2016, Pinterest, Design Article Database in Pinterest,
Option 7. OpenCourseWare (OCW) or MOOC Review Option

Recently, there is a huge explosion of open educational contents. Among these new learning resources are open educational resources (OER), OpenCourseWare (OCW), and massive open online courses (MOOCs). OCW and OER typically are freely available contents without direct contact with instructors. MOOCs are instructor-driven courses which are usually free and open to the world community, thereby involving large enrollments. An optional assignment idea for this class is to explore or enroll in one or two massive open online courses (MOOCs) related to learning, cognition, and instruction. Even if you do not select this task, you might explore a few of these MOOCs and observe how they are conducted. And then reflect, reflect, reflect!

You could replace the midterm or final by enrolling in one or more MOOCs and writing a 2-4 page single spaced reflection paper (4-6 pages with a partner) on what you learned as it relates to various topics from this course (not counting references and appendices). Note: you might include a recap table or chart at the end summarizing key concepts or ideas mentioned in your paper. You would NOT have to complete the course; just sit in and lurk if you want. Your MOOC review paper should include your insights about the learning environment and learning theories relied upon as well as a few specific examples of instructional tasks and ideas from the course. It will be graded for: (1) connections to course content; (2) coherence and organization; and (3) overall insights and conceptual understandings.

If you complete the course or get a certificate (Coursera calls these “Signature” courses), you can replace your final assignment. Even if you do not complete a MOOC, you could replace your final assignment if you write a longer reflection paper or extend the assignment in some way (e.g., interview the MOOC instructor(s) about their instructional approaches and beliefs about learning; interviewing other participants/students taking this course about their learning experiences; etc.). As part of these efforts, you might also explore some of the open educational portals and contents listed in your syllabus or that you find online.

Some questions you might ask before writing your paper:
- What is the overall feel of this learning environment? Is there any particular learning approach or philosophy that you feel or experience?
- What aspects of learning and instruction are addressed in this MOOC or by this open educational resource? Stated another way, what theory of learning and instruction does the instructor or the course design tend to rely upon?
- What learning theory or perspective might be used to improve the course? How might you improve this course if asked?
- Are there any specific learning concepts and principles embedded in any module or in multiple modules of the course?
- How does the MOOC utilize existing OER content? How might it better take advantage of such resources?
- Which tasks or activities seem most effective and why? What are the most creative?
- What is the least effective aspect of this course and why?
- What aspects of learning and instruction or theoretical perspective do you understand better now? And why?

Portals to MOOC courses:
1. MOOC Provider Companies and Organizations:
   1. Canvas: https://www.canvas.net/
   2. Coursera list of courses: https://www.coursera.org/courses?orderby=upcoming
   4. Canvas: https://www.canvas.net/
   5. edX courses: https://www.edx.org/course-list
   6. FutureLearn: https://www.futurelearn.com/courses/upcoming
   7. iVersity: https://iversity.org/
10. Open Education (powered by Blackboard): https://openeducation.blackboard.com/site/
12. Open2Study: https://www.open2study.com/

MOOC Lists:
1. Class Central: https://www.class-central.com/subject/education
2. The MOOC List: http://www.mooc-list.com/
3. Open Culture: http://www.openculture.com/free_certificate_courses
4. TechnoDuet: http://www.technoduet.com/a-comprehensive-list-of-mooc-massive-open-online-courses-providers/

MOOC Review Grading Criteria if a Final Project (70 Points; 10 points each):
1. **Insightful/Originality**: innovative ideas, insightful relationships drawn about MOOCs and open education, helps the reader form new understandings about MOOCs.
2. **Interesting**: engaging writing, unique perspective on MOOCs and open education.
3. **Completeness**: thorough, detailed, dig deep, effort, fulfills spirit of the assignment.
4. **Relevance**: concepts and ideas from MOOC experience appropriate and related to class, perhaps includes a recap list or summary table of what learned.
5. **Content**: learning displayed, made several key connections to class from MOOC experience, highly informative reflection (helps the reader form new understandings).
6. **Exploratory and Reflective**: pushing out, metacognitive, reflecting on oneself as a learner or on how fellow learners benefit from MOOCs, shows that one was reflecting on the experience both as a learner as well as in light of the content of this class.
7. **Coherent, Logical Flow, and Well Organized**: easily read, transitions, conclusions, logical flow to the critique or review of MOOCs or MOOC experience, well organized review, sequence of ideas makes sense.
8. **I will also look for**: breadth/depth of thought, knowledge growth displays, understands theories, concepts, and principles in relation to the MOOC experience. And I will want to see some critical thinking displayed including sound analysis and evaluation of instructional approach taken in MOOC, logical, backs up claims.
Grading Note #1: I will use a rubric for the above. Write me an email if you would like to see that rubric.

Grading Note #2: Extra consideration (and the potential for bonus points) given for those who cite references on MOOCs or open education, create a summary or recap table of terms or concepts mentioned in their reflection paper, participate in more than one MOOC, and those who actually complete the course. Summary or recap tables are especially welcome.

Class Sharing of Final Projects: If possible, I would like you to post your final projects to Canvas (my instructional assistant, Meina Zhu, can help). In addition, during our final class session on April 22, some people “might” briefly share their final projects. Online students do not have to worry about the presentation part. I will contact you ahead of time if needed. But I do take volunteers.

Weekly Reading Requirements
We will read 3-4 main articles and 5-6 tidbits per week and watch some of the embedded videos—it is your choice what to read.

Projected Seminar Weekly Topics:

**Week 1. (January 7) Introduction to the Open World: Visionaries and Visions**


(Note: The above three sections of the book are combined and available at:
5. Charles A. Wedemeyer, University of Wisconsin
   c. A Brief History of Distance Education: http://www.seniornet.org/edu/art/history.html
   d. In Memorandum: http://www.tandfonline.com/doi/abs/10.1080/08923649909527031#preview

   "The Mother of All Demos" is a name given retrospectively to Douglas Engelbart's December 9, 1968, demonstration of experimental computer technologies that are now commonplace. The live demonstration featured the introduction of the computer mouse, video conferencing, teleconferencing, hypertext, word processing, hypermedia, object addressing and dynamic file linking, bootstrapping, and a collaborative real-time editor."
   a. The Mother of All Demos, presented by Douglas Engelbart (1968) Original Video on YouTube (140:52): https://www.youtube.com/watch?v=yJDv-zdhzMY

Videos:
   c. Video (11:34), April 13, 2016: The Fourth Industrial Revolution: https://www.youtube.com/watch?v=khjY5LWF3tg

Week 1 Tidbits:


r. January 3, 2017, College is Over, Roger Schank, LinkedIn,
Week 2. (January 14) Alternate Reality Learning: VR, AR, Gaming, and Simulations


**Videos:**

a. **Video** (2:02), January 12, 2015: Microsoft HoloLens - Transform your world with holograms: [https://www.youtube.com/watch?v=EOJyRJKqukc](https://www.youtube.com/watch?v=EOJyRJKqukc)

b. **Osso VR**: [http://ossovr.com/](http://ossovr.com/) and (50 second video): [https://www.youtube.com/watch?v=yes_GEtIa6o](https://www.youtube.com/watch?v=yes_GEtIa6o)


Video (4:04): [https://www.youtube.com/watch?v=pOW7oG6bIFl](https://www.youtube.com/watch?v=pOW7oG6bIFl)

d. **Video (8:00)**, June 21, 2017, Beyond the Frame: The New Classroom, [https://www.youtube.com/watch?v=zGGVYT0cMHg](https://www.youtube.com/watch?v=zGGVYT0cMHg)

**Week 2 Tidbits:**

a. Taiwan (in Chinese), December 5, 2018, Empathy Starter, Penny Pan, project video: [https://www.youtube.com/watch?v=YwxDvqdG_ZQ](https://www.youtube.com/watch?v=YwxDvqdG_ZQ); project website [https://www.atplay.tw/projects](https://www.atplay.tw/projects); KAAA fan page: [https://www.facebook.com/社團法人高雄市接納自閉症學會-587008344723426/](https://www.facebook.com/社團法人高雄市接納自閉症學會-587008344723426/)


[https://s3.amazonaws.com/masiecontent/content/masie/immersiverealities2018/ImmersiveRealities-optimized.pdf](https://s3.amazonaws.com/masiecontent/content/masie/immersiverealities2018/ImmersiveRealities-optimized.pdf)

c. May 10, 2018, World without walls: virtual reality’s role in the classroom


d. May 1, 2018, 3 ways districts can use AR and AI, Justin Anglio, *eSchool News* [https://www.eschoolnews.com/2018/05/01/3-amazing-ways-our-district-is-using-ar-and-vr/](https://www.eschoolnews.com/2018/05/01/3-amazing-ways-our-district-is-using-ar-and-vr/)

Carnegie Learning: [https://www.carnegielearning.com/login/index.html](https://www.carnegielearning.com/login/index.html)


x. What is really behind the Pokémon Go craze, Hayley Tsukayama and Ben Guarino, July 12, 2016, Washington Post (includes video: 1:31). Available:


Some virtual world and gaming people:
1. Craig Kapp, Clinical Professor, NYU. http://cims.nyu.edu/~kapp/; kapp@cs.nyu.edu (AR/VR pop-up books) (keynote at E-Learn in Hawaii in 2011)
2. Dr. Michael Young (was Sasha’s advisor), University of Connecticut, http://education.uconn.edu/person/michael-young/; michael.f.young@uconn.edu; http://web2.uconn.edu/myoung/
4. Dr. Constance Steinkuehler, Co-Director, Associate Professor, Education, Games Learning Society, http://www.gameslearningsoiu.org/bio_constance.php; steinkuehler@wisc.edu
6. Dr. Bonnie Nardi, UC Irvine, nardi@uci.edu; http://www.artifex.org/~bonnie/ (known for ethnography and virtual worlds and activity theory and human-computer interaction); https://mitpress.mit.edu/authors/bonnie-nardi
7. Dr. Sara de Freitas, Pro Vice Chancellor (Learning and Teaching), Murdoch University, Australia, http://www.seriousgamesinstitute.co.uk/applied-research/Sara-de-Freitas.aspx
**Week 3. (January 21) Open Textbooks, E-Books, and Digitally Enhanced Books**

   


   **Articles in this issue include:**
   
   a. The Adoption of an Open Textbook in a Large Physics Course: An Analysis of Cost, Outcomes, Use, and Perceptions,
   
   b. Cultivating Textbook Alternatives From the Ground Up: One Public University’s Sustainable Model for Open and Alternative Educational Resource Proliferation,
   
   c. Higher Education Faculty Perceptions of Open Textbook Adoption (Eulho Jung, Christine Bauer, & Allan Heaps),
   
   d. Rating the Quality of Open Textbooks: How Reviewer and Text Characteristics Predict Ratings,


   (also see the briefer Campus Technology explanation, Dian Schaffhauser, November 11, 2015: [https://campustechnology.com/articles/2015/11/10/major-study-finds-oer-students-do-just-as-well-or-better.aspx](https://campustechnology.com/articles/2015/11/10/major-study-finds-oer-students-do-just-as-well-or-better.aspx)


**Note:** Rajiv Jhangiani, Surrey, BC, Canada, rajiv.jhangiani@kpu.ca, teaches psychology at Kwantlen Polytechnic University.
University Homepage: [http://www.kpu.ca/arts/psychology/faculty/rajiv-jhangiani](http://www.kpu.ca/arts/psychology/faculty/rajiv-jhangiani)
Personal Homepage: [https://thatpsychprof.com/](https://thatpsychprof.com/)

**Free books:**


**Videos:**
1. October 11, 2018, Webinar: Helping Students Get Access to Textbooks
   Bill Neumann, University of Arizona, Stacy Morrone, Indiana University
2. April 24, 2018, Indiana University’s eText 101: Are your students paying too much for textbooks?,
Week 3 Tidbits:


i. May 8, 2018, $5 Million for Open Textbooks in FY18 Omnibus Bill, SPARC (the Scholarly Publishing and Academic Resources Coalition) [https://sparcopen.org/our-work/open-textbooks-fy18/](https://sparcopen.org/our-work/open-textbooks-fy18/)


k. April 14, 2018, Google’s astounding new search tool will answer any question by reading

Allows you and me to ask questions which trigger a semantic search of the 120,000 books that Google has digitized (typically in under 6 seconds).


https://www.insidehighered.com/quicktakes/2017/06/22/compilation-oer-moment

Dropbox: https://www.dropbox.com/sh/xyvr10vih19tvyrw/AADgYAdtiAegtQ_QASyhrbp2a?dl=0


w. May 5, 2017, Dean: Here’s how eTextbooks are leading to higher completion rates. Tracy Hurley, eCampus News, Available: https://www.ecampusnews.com/campus-administration/etextbook-completion-rates/


z. April 9, 2017, Daniel T. Hickey, How Open E-Credentials will Transform Higher

aa. April 6, 2017, University’s eText program saves students over $3.5 million, Campus Technology, https://campustechnology.com/articles/2017/04/06/indiana-u-students-save-3-5-million-through-digital-textbook-program.aspx

bb. April 6, 2017, Indiana University’s eText program saves students over $3.5 million (Program makes digital textbooks cost less and do more, grows 56 percent), Indiana University Newsroom, https://itnews.iu.edu/articles/2017/indiana-universitys-etext-program-saves-students-over-3-5-million.php

cc. April 4, 2017, The open educational resources movement is redefining the concept of online textbooks, Suzanne Bowness, University Affairs, http://www.universityaffairs.ca/features/feature-article/open-educational-resources-movement-redefining-concept-online-textbooks/


Videos and Resources:


b. Dr. Richard Baraniuk - OpenStax: An Open Education Case Study, University of Houston, November 2016 (26:00 minute mark): https://vimeo.com/190730802


e. September 2, 2014, LearningField Case Study: Penleigh and Essendon Grammar School, Melbourne, https://www.youtube.com/watch?v=0BemtFTDF1g#t=146

E-Book Resources and Companies (mobile ones too):

2. BCCampus, OpenEd: https://www.ecampusontario.ca/
3. Beyond Textbooks: http://beyonddtextbooks.org/
5. Bookshare: An accessibility online library for people with disabilities:
   https://www.bookshare.org/
7. CK-12 Foundation: http://www.ck12.org/student/
10. Discovery Education Techbook:
11. Digital Textbook Playground (USA):
13. The Global Text Project (creating books for underdeveloped countries):
    http://globaltext.terry.uga.edu/
    collection includes 4,619 books in 59 languages; users come from 228 different
    countries.)
18. LibriVox: http://librivox.org/
19. LibreTexts: https://libretexts.org/
22. NY Public Library Portal to Children’s e-books: http://kids.nypl.org/ebooks
25. OpenCollegeTextbooks: http://collegeopentextbooks.org/
27. Open Utopia: http://theopenutopia.org/
29. Project Gutenberg: http://www.gutenberg.org/wiki/Main_Page
30. Questia: http://www.questia.com/
33. Seeds of Empowerment (Paul Kim, creating tools for the underdeveloped world; e.g.,
    iPhone applications for storytelling and social entrepreneurship)
    http://seedsofempowerment.org/
34. Subtext: http://subtext.com/
35. Talk to Books: https://books.google.com/talktobooks/
36. Tumblebooks: http://www.tumblebooks.com/
37. Tutor Beta from OpenStax: https://openstax.org/openstax-tutor
38. World Public Library: http://worldlibrary.net/

**Week 4. (January 28) The Expansion of Blended and Fully Online Learning**

   Student perceptions across four different instructional models. *Australasian Journal of


   i. Note: See also Reports from the Innosight Institute: [https://www.christenseninstitute.org/publications/classifying-k-12-blended-learning-2/](https://www.christenseninstitute.org/publications/classifying-k-12-blended-learning-2/)
   ii. Blended Learning Universe, Clayton Christensen Institute: [https://www.youtube.com/channel/UCWoz9cN2KT93VujFmQgL8MQ](https://www.youtube.com/channel/UCWoz9cN2KT93VujFmQgL8MQ); [http://blendedlearning.org](http://blendedlearning.org)
   iii. Video: What is Blended Learning? Clayton Christensen Institute: [https://www.youtube.com/watch?v=RSPgywZMdS8](https://www.youtube.com/watch?v=RSPgywZMdS8)

Blended Learning Videos:
1. **PBS Video (2016):** “Putting the Blend in Blended Learning,” Public Media Connect--CET/ThinkTV, PBS, Cincinnati, Ohio. February 18, 2016. (including interview of Curt Bonk, Indiana University)
      http://www.cetconnect.org/education/blended-learning-k12-schools/
   ii. Blended Learning in Practice (10:15):
      http://www.cetconnect.org/education/blended-learning-practice/

2. **October 2008 STARLINK program on blended learning in higher education (Curt Bonk and 3 other college Faculty).** Strategies from the Front Line: Best Practices from Hybrid Instructors, filmed in Dallas for a STARLINK program on blended learning. STARLINK is an agency of the Texas Association of Community Colleges.
   http://www.trainingshare.com/starlink4.html#c8

3. **February 2009 STARLINK program on best practices and tips for online learning in higher education (Curt Bonk).** Award-winning Tools, Tips, and Techniques for Online Instruction. It features successful teaching strategies and demos that award winning instructors have found to be their best practices.
   http://www.trainingshare.com/starlink4.html#h9

4. **January 2010 STARLINK program on applying the Web 2.0 in higher education (Curt Bonk).** *Utilizing Web 2.0 Applications for Teaching and Learning* and also *Technology and Retention.*
   http://www.trainingshare.com/starlink4.html#k10

Week 4 Tidbits:
   https://www.chronicle.com/article/Meet-the-New-Mega-University/245049
   d. September 28, 2018, UH Experts Suggest Top Tools for Teaching Online, College of Education, The University of Houston. Susie Gronseth,
http://www.uh.edu/education/features/sgronseth-online-tools/

6. April 25, 2018, IU Online Newsletter, Teaching Online at IU https://teachingonline.iu.edu/about/newsletter/articles/180424-spring_census.html


aa. Online Degree at America's Top Universities, Priceonomics Data Studio, https://priceonomics.com/the-rise-of-the-online-degree-at-americas-top/


vv. January 5, 2016, Examine the Benefits, Drawbacks of Online Learning for Introverts (interview with Curt Bonk and others), U.S. News and World Report, Jordan Friedman http://www.usnews.com/education/online-education/articles/2016/01/05/examine-the-benefits-drawbacks-of-online-learning-for-introverts


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**Week 5. (February 4) Extreme, Nontraditional, and Adventure Learning**


2. Miller, C., Veletsianos, G., & Doering, A. (2008). Curriculum at forty below: a phenomenological inquiry of an educator/explorer’s experience with adventure learning in the Arctic. *Distance Education, 29*(3) 253-267. (Note: must have access from library for this article: http://www.tandfonline.com/doi/pdf/10.1080/01587910802395789 another link to it: http://www.tandfonline.com/doi/abs/10.1080/01587910802395789 (see download PDF link)


Week 5 Tidbits:


h. July 19, 2017, Why some groups are rich and others are poor…my MOOC platform dreams (III), Jim Ngei, Healing Focus, [https://medium.com/healing-focus/why-some-groups-are-rich-and-others-are-poor-my-mooc-platform-dreams-iii-34e4e2fbbdb3](https://medium.com/healing-focus/why-some-groups-are-rich-and-others-are-poor-my-mooc-platform-dreams-iii-34e4e2fbbdb3)


n. September 16, 2016, Best of the E/V Nautilus 2016 Expedition | Nautilus Live (video: [https://docs.wixstatic.com/ugd/dfdeaf_1989e2278e76458ba77c06aad54ad1.pdf#page=17](https://docs.wixstatic.com/ugd/dfdeaf_1989e2278e76458ba77c06aad54ad1.pdf#page=17))

May 3, 2017, 4 out of 5 Companies Have Hired a Coding Bootcamp Graduate, Sri Ravipati, Campus Technology, https://campustechnology.com/articles/2017/05/03/4-out-of-5-companies-have-hired-a-coding-bootcamp-graduate.aspx

March 15, 2016, French woman aged 91 gets PhD after 30 years, The Guardian (Colette Bourlier, who awarded a high distinction for her thesis on immigrant workers, said it took so long because she ‘took breaks’), http://www.theguardian.com/world/2016/mar/16/french-woman-aged-91-gets-phd-after-30-years?CMP=share_btn_tw


If the MOOC movement has faded, nobody told Jima Ngei. Mr. Ngei, who lives in Port Harcourt, Nigeria, has completed and passed 250.


February 20, 2013, Star Trek-like holodeck may be closer to reality than you think Matt Hartley, Financial Post, Canada, available: http://business.financialpost.com/2013/02/20/star-trek-like-holodeck-may-be-closer-to-
reality-than-you-think/?_lsa=054d-d58d

**Videos Week 5: Nontraditional Learning:**


**Open Ed, Outdoor/Environmental/Adventure Learning People and Web Sites:**

5. Center for Open Science: https://cos.io/
11. Coursera: https://www.coursera.org/
14. edX: https://www.edx.org/course
18. Explore.org: http://explore.org/
19. Exploratorium Ice Stories: http://icesstories.exploratorium.edu/dispatches/
20. Explore Arctic: http://www.explore.org/search/?q=arctic
22. The Freshwater Switchyard of the Arctic Ocean: http://psc.apl.washington.edu/switchyard/overview.html
27. TEDxHonolulu - History Teachers.m4v: http://www.youtube.com/watch?v=oWZI_ATu00o
28. Ice Stories: http://icesstories.exploratorium.edu/dispatches/
30. Intro to Open Education course (Fall 2016 from David Wiley): http://openeducation.us/2016/
32. Jon Bowermaster (Notes from Sea Level): http://www.jonbowermaster.com/
34. The Last Ocean Project: http://lastocean-project.org/ and http://www.lastocean.com
41. OER World Map: https://oerworldmap.org/
43. One World Expeditions: http://www.oneworldjourneys.com/
44. OpenEd: http://www.opened.io/
45. Open Education Europa: http://openeducationeuropa.eu/
46. Open Education Group: https://openedgroup.org/
47. OpenLearning: https://www.openlearning.com/
49. Online Learning Consortium: https://onlinelearningconsortium.org/read/
50. OSPRI (Open Source Pedagogy, Research + Innovation): https://ospri.ssri.duke.edu/about
51. Outschool: [https://outschool.com/](https://outschool.com/)
57. PolyglotPal’s Channel: [http://www.youtube.com/user/PolyglotPal](http://www.youtube.com/user/PolyglotPal)
59. Skills Commons: [https://www.skillscommons.org/](https://www.skillscommons.org/)
60. SPARC (the Scholarly Publishing and Academic Resources Coalition): [https://sparcopen.org/](https://sparcopen.org/)
61. Spot the Station: The International Space Station: [https://spotthestation.nasa.gov/](https://spotthestation.nasa.gov/)
63. Wayne Hodgins: [http://waynehodgins.typepad.com/about.html](http://waynehodgins.typepad.com/about.html)

**Live and Immediate Science**
1. The Brain Observatory: [https://www.thebrainobservatory.org/](https://www.thebrainobservatory.org/)
5. Ocean Explorer Media: [http://oceanexplorer.noaa.gov/oceanos/explorations/10index/background/info/info.html](http://oceanexplorer.noaa.gov/oceanos/explorations/10index/background/info/info.html)

**Week 6. (February 11) Open Educational Resources (OER) and OpenCourseWare (OCW)**

**Articles in this issue include:**


**Note Free Books and Reports:**
3. Jhangiani, R. S. (Ed). OER FAQs, Commonwealth of Learning (COL), Burnaby, BC. http://discourse.col.org/c/open-educational-resources-faq


Week 6 Tidbits:


d. October 12, 2018, Participant Experiences and Financial Impacts: Findings from Year 2
k. Open Educational Resources (Babson), http://www.onlinelearningsurvey.com/oer.html
s. April 2, 2017, In the Post-Truth Era, Colleges Must Share Their Knowledge, The
t. November 7, 2016, OER Use to Triple Over Next 5 Years, Campus Technology


y. Jeffrey R. Young, May 4, 2016, This Mongolian Teenager Aced a MOOC Now He Wants to Widen Their Impact. (140,000 people take the MIT MOOC on Circuits and Electronics, 1 of 300 to get a perfect score) The Chronicle of Higher Education, http://chronicle.com/article/This-Mongolian-Teenager-Aced-a/236362

z. April 4, 2016, MIT OpenCourseWare is 15!, https://ocw.mit.edu/about/our-history/ and Video (2:07): Thank you for 15 years of open sharing: https://www.youtube.com/watch?v=nBDFbsq10To

aa. Kenneth Green, February 2016, Faculty Awareness of the Open World, Going Digital: Faculty Perspectives on Digital and OER Course Materials


releases/milestone/


Videos:


**Week 7 (February 18). Open Education & Massive Open Online Course (MOOCs)**


Or:


**Bonk MOOC Videos:**


2. Curt Bonk, November 2014, (Compressed, High Def; Low Def), (16 minutes). Shenzhen, China: Learning is Changing: MOOCs, The Open World, and Beyond. ([Dropbox slides](https:))

3. Curt Bonk interviewed for master’s student training video, *MOOCs and Self-directed Learning*, by Marcelo Maina, Universitat Oberta de Catalunya (i.e., the Open University of Catalonia), Barcelona, Spain, (recorded June 21, 2017; made available December 22, 2017). All seven video interviews: [https://www.youtube.com/channel/UCdhZdfz53NW5pj4JxZGSLUA](https://www.youtube.com/channel/UCdhZdfz53NW5pj4JxZGSLUA)
   
   1. Q#7 Principles of teaching in new technology rich environments. Available (5:38): [https://www.youtube.com/watch?v=t3UxSX0Q5s8&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF](https://www.youtube.com/watch?v=t3UxSX0Q5s8&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF)
   2. Q#6 SOLE and open education design (4:51): [https://www.youtube.com/watch?v=Q--0CgaC1s0&index=2&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF](https://www.youtube.com/watch?v=Q--0CgaC1s0&index=2&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF)
   3. Q#5 MOOCs and cultural differences (3:19): [https://www.youtube.com/watch?v=jrn143tWkGM&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF&index=3](https://www.youtube.com/watch?v=jrn143tWkGM&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF&index=3)
   4. Q#4 Personalization in MOOCs (6:25): [https://www.youtube.com/watch?v=GednTOmEnZs&index=4&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF](https://www.youtube.com/watch?v=GednTOmEnZs&index=4&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF)
   5. Q#3 Models of MOOC effective education (7:32): [https://www.youtube.com/watch?v=tWFZ1qFm6K4&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF&index=5](https://www.youtube.com/watch?v=tWFZ1qFm6K4&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF&index=5)
6. Q2 MOOC design recommendations for educators (3:12):
   https://www.youtube.com/watch?v=EH1fEilg6kg&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF&index=6
7. Q1 Innovative experiences in MOOCs and open education (2:51):
   https://www.youtube.com/watch?v=ZMywBo7Mx84&index=7&list=PLyqLzFjZc4SmUT74_ajFAJc2nc1bVejQF

Short Videos on MOOCs and Open Education:
1. Video (2:17), October 14, 2014, Duke MOOCs Around the World,
   https://www.youtube.com/watch?v=nL5QQRR6IOU&feature=youtu.be
2. Anuar Lequerica, June 14, 2016, World First: University of Michigan’s Dr. Chuck Holds a Graduation Ceremony for MOOC Students, Class Central,
3. October 3, 2015, ‘They don’t allow you to fail’: In custom classrooms, at-risk students thrive,
   PBS NewsHour, NewsHour's Hari Sreenivasan reports, Available:
   http://www.pbs.org/newshour/bb/don't-allow-fail-customized-classroom-risk-students-thrive/
4. Peter Struck, Professor, UPenn, Mythology class to 54,000 students, AOL News, Sept. 5, 2013, 1:01 minutes video: https://youtu.be/yk9GNVwj6E ;
   Article: http://www.theepochtimes.com/n3/229640-5-best-moocs-for-free-online-higher-education/
   Article: http://www.washingtonpost.com/opinions/why-i-spent-10th-grade-online/2013/08/22/f2001640-ed8a-11e2-bed3-b9b6fe264871_story.html
   Video: https://www.youtube.com/watch?t=36&v=WNg5LFA_mdI
8. The Benefits of Online Learning, Anant Agarwal, the founder and president of edX, an online education company, shares what he considers the top six advantages of online learning., October 8, 2013, 2:20 minutes:
   Article: http://online.wsj.com/article/SB10001424052702303759604579093400834738972.html;
   Videos: http://online.wsj.com/article/SB10001424052702303759604579093400834738972.html#project%3Dvideo

Week 7 Tidbits:


h. May 9, 2018, A blueprint for creating a successful MOOC (continued), Satesh Bidaisee, eCampus News https://www.ecampusnews.com/uncategorized/a-blueprint-for-creating-a-successful-mooc/2/?all

i. May 3, 2018, MicroMasters Credentials are a Pathway to Today’s Top Jobs, edX, https://www.edx.org/micromasters


w. April 24, 2017, Massive Open Online Courses used to be 100% free. But they didn’t stay that way, Dhawal Shah (Founder of Class Central), freeCodeCamp, https://medium.freecodecamp.org/massive-open-online-courses-started-out-completely-free-but-where-are-they-now-1d1d102f59


c. April 1, 2015, Three Insights from the HarvardX and MITx Year Two Reports, Education Week, Justin Reich, HarvardX Research Fellow http://blogs.edweek.org/edweek/edtechresearcher/2015/04/three_insights_from_the_harvardx_and_mitx_year_two_reports.html


http://extensionengine.com/putting-moocs-to-work-recap-infographic/#.VExR4o3wtjs


MOOC-Related Videos and Audios:
1. What is a MOOC? by Dave Cormier, December 8, 2010: http://www.youtube.com/watch?v=eW3gMGqcZQc

Inexpensive Online Learning and MOOC Related Organizations and Institutions:
1. Coursera: https://www.coursera.org/
2. edX: https://www.edx.org/
3. edX high school initiative: https://www.edx.org/high-school-initiative
4. edX partners: https://www.edx.org/schools-partners
5. FutureLearn: https://www.futurelearn.com/
6. Global Freshman Academy, edX: https://www.edx.org/how-it-works
8. MITX: https://www.edx.org/university_profile/MITx
14. University of the People: http://www.uopeople.edu/

Somewhat Shady and/or Nefarious Websites (there are many others):
- BoostMyGrade.com: http://www.boostmygrade.com/
- NoNeedtoStudy.com: https://www.noneedtostudy.com/myclass/
- Unemployed Professors.com: http://unemployedprofessors.com/
Week 8 (February 25). More MOOCs and Open Education Around the World


More MOOC Reading:


Or read: anything on MOOCs from:
Justin Reich of MIT: [https://scholar.google.com/citations?user=ihnlfqIAAAAJ&hl=en](https://scholar.google.com/citations?user=ihnlfqIAAAAJ&hl=en)
Andrew Ho of Harvard: [https://scholar.google.com/citations?user=oxiFUrEAAAAJ&hl=en](https://scholar.google.com/citations?user=oxiFUrEAAAAJ&hl=en)

**Interviews of Bonk et al. on MOOCs and Open Education:**


Week 8 Tidbits:


h. October 25, 2018, 190 universities just launched 600 free online courses. Here’s the full list, Dhawal Shah, Quartz, https://qz.com/1437623/600-free-online-courses-you-can-take-from-universities-worldwide/


q. September 25, 2017, Professors Have Taken Over the MOOCs: How open online learning is changing, Joshua Kim, Inside Higher Ed https://www.insidehighered.com/blogs/technology-and-learning/professors-have-taken-over-moocs (example: https://www.edx.org/course/bipedalism-science-upright-walking-dartmouthx-dart-anth-01-x)


x. November 17, 2015, Udacity and Google Unveil Co-Developed Nanodegree, John K. Waters, Campus Technology.


aa. October 8, 2015, MIT New Model, Carl Straumsheim, Inside Higher Ed.


cc. October 7, 2015, MIT Unveils ‘MicroMaster’s,’ Allowing Students to Get Half Their Degree From MOOCs, Andy Thomason, Chronicle of Higher Education.


e. September 14, 2015, When a Degree Is Just the Beginning: Today’s employers want more, say providers of alternative credentials, Chronicle of Higher Education, Goldie Blumenstyk.


**Week 9. (March 4) Open Education in the Developing World (i.e., Emerging Economies)**


**Week 9 Tidbits:**


f. Knod, allows learner to work with employers to diagnose skills gaps, then provide a platform to deliver content to build those skills in a learn by doing experiences, real projects with employers, [http://www.knod.net/](http://www.knod.net/)

g. May 20, 2016, agMOOCs (India); [http://www.agmoocs.in/](http://www.agmoocs.in/)

h. September 22, 2015, Who’s Benefiting from MOOCs, and Why, by Chen Zhenghao, Brandon Alcorn, Gayle Christensen, Nicholas Eriksson, *Daphne*
Week 10. (March 11) Informal and Self-Directed Online Learning Environments (including online language learning)


Week 10 Tidbits:


e. Mike Butcher (2018, March 18). EdTech is having a renaissance, powered by
the emerging world (includes Chatterbox info).


k. March 24, 2015, Langscape, Language at Maryland, Available: https://languagescience.umd.edu/beyond-umd/langscape


Some Language Learning Sites:
   a. ESL: http://esl.about.com/
   b. French: http://french.about.com/
   c. German: http://german.about.com/
   d. Italian: http://italian.about.com/
   e. Japanese: http://japanese.about.com/
   f. Mandarin: http://mandarin.about.com/
   g. Spanish: http://spanish.about.com/

2. BBC Languages: http://www.bbc.co.uk/languages/

3. BBC Learning English: http://www.bbc.co.uk/worldservice/learningenglish/


5. Chatterbox (learn languages with refugees): https://wearechatterbox.org/


10. German Online: http://www.dw-world.de/dw/0,2547,00.html
11. iTalkie: http://www.italki.com/
16. Langscape Univ of Maryland https://languagescience.umd.edu/beyond-umd/langscape
17. LoMasTV (online Spanish immersion TV): https://spanish.yabla.com/
20. OpenLanguage: http://openlanguage.com/

Week 11. (March 25) Connectivism, Social Media, and Participatory Learning

   Articles in this issue include:

   a. Mimi Ito (2014, August 25). Think Education 2014 - Mimi Ito, Google, San Paulo, Brazil (29:21); Video of keynote: https://www.youtube.com/watch?v=t0uL0d2ShPU
   b. Mimi Ito (2013, October 22). Mimi Ito on Learning in Social Media Spaces (Big Thinkers Series, from Edutopia), (7:24), Video: https://www.youtube.com/watch?v=HF5pxnXwMBY
   d. John Seely Brown (2006, December 1). Relearning learning—Applying the long tail to
learning. Presentation at MIT iCampus, Video available from MITWorld:  
http://video.mit.edu/watch/relearning-learning-applying-the-long-tail-to-learning-9174/  
and  
http://video.mit.edu/
e.  
https://www.youtube.com/watch?v=41pNX9-yNu4

f.  
https://www.youtube.com/watch?v=9u-MczVpkUA

3.  

4.  

5.  
http://www.macfound.org/media/article_pdfs/JENKINS_WHITE_PAPER.PDF

6.  

7.  

8.  

a.  

Free book on Connectivism:  

Resources and Videos:
   i. The Conflict of Learning Theories with Human Nature:
      http://www.youtube.com/watch?v=xTgWt4Uzr54&feature=related
   ii. The Changing Nature of Knowledge:
      http://www.youtube.com/watch?v=YMcTHndpzYg&feature=related
   iii. The Impact of Social Software on Learning:
      http://www.youtube.com/watch?v=grI_h88vs3g
   iv. The Network is the Learning:
      http://www.youtube.com/watch?v=rpbkdeyFxZw&feature=related


**Week 11 Tidbits:**


   Video (1 minute): http://curtbonk.com/facebook-portal.html


e. June 18, 2018, Microsoft acquires social learning platform Flipgrid

f. June 18, 2018, Satya Nadella, Microsoft CEO announces Flipgrid joining the Microsoft family, https://www.youtube.com/watch?v=aMo_FSS-6Cc


k. July 11, 2017, Going ’phigital?’ 4 things schools need to know about Generation Z
l. July 8, 2017, 3 big ways today’s college students are different from just a decade ago, Meris Stansbury, eCampus News, https://www.ecampusnews.com/campus-administration/college-students-different/?all
q. April 5, 2017, Teaching in the age of social media, David Smith, University Affairs, http://www.universityaffairs.ca/career-advice/career-advice-article/teaching-age-social-media/


See: Degreed: https://degreed.com/


Week 12. (April 1) Interactive, Global, and Collaborative Learning (including wikis and learning spaces, etc.)


   Note: also in Canvas:


   b. Lee, M. M. (2010) “We are so over pharaohs and pyramids!” Re-presenting the othered lives. International Journal of Qualitative Studies in Education (QSE), 23(6), pp. 737-754. Also available for some at:

**Note:** More articles from Mimi Miyoung Lee at ResearchGate: https://www.researchgate.net/profile/Mimi_Lee5

For more related to online videoconferencing, see:

1. Soliya: http://www.soliya.net/
   i. Georgetown Learning Initiatives, Soliya Connect: http://gli.georgetown.edu/#soliya
   ii. Connect from Soliya: https://vimeo.com/38328511


   Part 2: Expanding Global Awareness (2:17): http://www.youtube.com/watch?v=8jWtSzoNIBk

**Week 12 Tidbits: Part I: Global Collaboration**
   b. July 29, 2018, Why Silicon Valley is teaming up with San Quentin to train young people


Note: Currently, there are over 45,000 researchers using the site, with almost 75,000 research projects.


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**Week 12 Tidbits Part 2: Classroom Space Articles:**


4. December 19, 2017. A New High-Tech Learning Center Changed How These Professors...
10. May 11, 2017, Indiana’s Active Learning Mosaic Expands

Videos and Resources of New or Remodeled Academic Buildings for Collaboration:
3. Ohio State’s New Library: http://www.youtube.com/watch?v=ak7FEOjqxqY
4. Saltire Centre at Glasgow Caledonian (Scotland): http://www.youtube.com/watch?v=xBsGeDa4ic&feature=related
Examples of Interactive Online Timeline Tools:

1. Archaeology’s Interactive Dig: [http://www.archaeology.org/interactive/](http://www.archaeology.org/interactive/)

Collaborative Projects:

1. Asia Society: [http://asiasociety.org/education](http://asiasociety.org/education)
15. TakingITGlobal: [https://www.tigweb.org/](https://www.tigweb.org/)

Tools for Collaboration:

5. Course Networking: https://www.thecn.com/
7. Google Docs: http://docs.google.com
10. Facebook: http://www.facebook.com/
11. Flipgrid: https://flipgrid.com/
14. GoToMeeting: https://www3.gotomeeting.com/
17. OpenStudy: http://openstudy.com/
18. PBworks: http://pbworks.com/
19. Piratepad: http://piratepad.net/front-page/
20. PrimaryPad: http://primarypad.com/ (recommended by “TypeWithMe”)
24. Slideshare: http://www.slideshare.net/
27. Twitter: http://twitter.com/
29. WebEx: http://www.webex.com/
30. Yahoo! Groups: http://groups.yahoo.com/
32. Zoom: https://zoom.us/

Week 13. (April 8) Mobile, Wireless, and Ubiquitous Learning


More from Paul Kim
Various articles: [https://www.dropbox.com/sh/xrvmtpkhe5vhrn1/AABy84P4pjuW037ZlZa4K-Hja?dl=0](https://www.dropbox.com/sh/xrvmtpkhe5vhrn1/AABy84P4pjuW037ZlZa4K-Hja?dl=0)

Seeds of Empowerment videos (Paul Kim, Stanford):
2. India Pocket School video: [http://www.youtube.com/watch?v=OKyP_kWPifM](http://www.youtube.com/watch?v=OKyP_kWPifM)
4. Argentina: [http://www.youtube.com/watch?v=Hd8JE1-k6Zg](http://www.youtube.com/watch?v=Hd8JE1-k6Zg) (my son Alex created)
5. Tanzania (which my son Alex did): [https://www.youtube.com/watch?v=Y3vWhHd5Yo](https://www.youtube.com/watch?v=Y3vWhHd5Yo); Tanzania PPT: [http://www.slideshare.net/SeedsofEmpowerment/smiley-symposium-presentation-elizabeth-buckner](http://www.slideshare.net/SeedsofEmpowerment/smiley-symposium-presentation-elizabeth-buckner)

Mobile Learning:
Eneza Education: [https://enezaeducation.com/](https://enezaeducation.com/)

Week 13 Tidbits:


6. The Horizon Reports (i.e., technology on the horizon): https://www.nmc.org/publication-type/horizon-report/

**Week 14 Tidbits: The Future of Learning Technology: The Personalization of Learning**

   Some Analytics features in CN: https://support.thecn.com/hc/en-us/articles/360007945954-Analytics


k. April 17, 2018, Massive work of ‘sentient art’ unveiled at Luddy Hall is also a learning tool for students, Indiana University, https://news.iu.edu/stories/2018/04/17/sentient-art-unveiled-at-luddy-hall.html


AI Videos, April 22, 2018

1. Video 1:00: Microsoft AI: Empowering Innovators ft. Common: 
   https://www.youtube.com/watch?v=Z5OWdqfAYfw
2. Video: 1:00 Microsoft AI + Iconem: Preserving History ft. Common:  
   https://www.youtube.com/watch?v=ZDZjaJhzM5M
3. Video: 0:44: Microsoft AI + The Yield: Taking the guesswork out of 
   farming ft. Common:  https://www.youtube.com/watch?v=7rzuSxIGH4o
4. May 9, 2018, Google Duplex Demo from Google IO 2018 
   Ben Thompson
      Video (4:11): https://www.youtube.com/watch?v=bdImEn2Fy08

Week 15. April 22 The Future of Learning Technology: AI, Robotics, and Personal Digital Assistants


   online courses (MOOCs): A post-humanist experience. Australasian Journal of Educational 

3. Preparing for the Future of Artificial Intelligence (2016, October), Executive Office of the 
   President, National Science and Technology Council, Committee on Technology, United States 
   of America, Blog: https://www.whitehouse.gov/blog/2016/05/03/preparing-future-artificial-
   intelligence; Summary Blog: https://www.whitehouse.gov/blog/2016/10/12/administrations-
   report-future-artificial-intelligence; Full Report: 
   https://obamawhitehouse.archives.gov/sites/default/files/whitehouse_files/ostp/NSTC/
   preparing_for_the_future_of_ai.pdf


5. November 6, 2018, How People Learn II: Learners, Contexts, Cultures, National Academy of 
   or https://www.nap.edu/download/24783 (read chapter on technology)

6. The Future from Contact North, Ontario, Canada 
   e. Stephen Downes (2017, October). Quantum Leaps We Can Expect in Teaching and 
      Learning in the Digital Age—A Roadmap. Contact North. 
      https://teachonline.ca/sites/default/files/pdfs/quantum_leaps_we_can_expect_in_teaching
      and_learning_in_the_digital_age_-_a_roadmap.pdf
      https://teachonline.ca/sites/default/files/pdfs/edu2035.pdf
Week 15 Tidbits: The Future of Learning Technology: AI, Robotics, and Personal Digital Assistants

a. December 13, 2018, Which major AI breakthroughs are we closest to right now (late 2018)?, Martin Ford, Quora, https://www.quora.com/Which-major-AI-breakthroughs-are-we-closest-to-right-now-late-2018


p. April 8, 2018, What I Learned When My Students Used Google Translate
Diane Loyet, The Chronicle of Higher Education,

q. January 10, 2018, 6 coolest gadgets from CES you'll likely see in your house this year,
Jennifer Jolly, USA Today, Available:
Video 2:03: http://curtbonk.com/ces1.html
Video 2:05: http://curtbonk.com/ces2.html

r. January 2, 2018, 5G to AR: Here are 7 technologies to watch in 2018
Edward C. Baig, USA Today,

s. January 2, 2018, Will artificial intelligence end the world as we know it? Why tech's sharpest minds can't agree, Marco della Cava, USA Today,

t. January 2, 2018, Five Videos to Raise Your Anxiety Over Robots, EdLab, New Learning Times,
https://www.wsj.com/articles/iranians-turn-to-telegram-app-amid-protests-1514919114 (Five videos including: Pregnant Robots Give Birth to New Forms of Experiential Learning) by Jenny Abamu:
https://newlearningtimes.com/cms/article/4028/pregnant-robots-give-birth-to-new-forms-of
and How Human is Too Human for Robots? By Sara Hardman:


v. December 21, 2017, A Robot Goes to College, Lindsay McKenzie, Inside Higher Ed,
Speech by Marc Zuckerberg (1:55): http://curtbonk.com/zuckerburg.html


Paul Davidson, USA Today,

z. October 14, 2017, China wants to bring artificial intelligence to its classrooms to boost its education system, How the take off of AI-enabled education will affect the interaction between China’s 14 million teachers and 188 million pupils
Meng Jing, South China Morning Post


