Time to Wake Up from Our Innovative Learning Dreams and Make Smarter Learning a Reality

Curtis J. Bonk, Professor, Indiana University
cjbonk@indiana.edu
http://curtbonk.com/

1

Poll: Have you reflected on your teaching philosophy or learning approach during the pandemic?

a. Yes, many times and I am dramatically changing my philosophy statement.
b. Yes, and I am taking action (meeting people, reading more, attending webinars like this, etc.).
c. Yes, I thought about it a couple of times and I am tweaking it.
d. Not sure. I'm kinda brain dead right now.
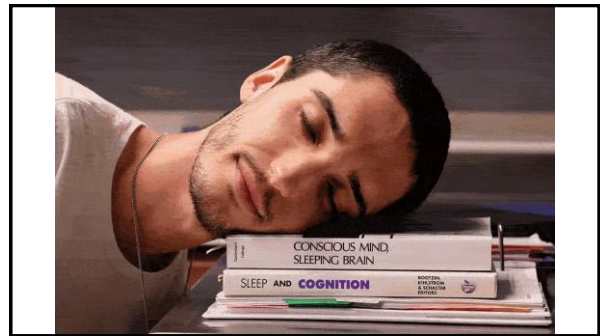e. No, my teaching philosophy is basically the same.

2

Poll: Did the pandemic make you smarter or dumber?

a. Definitely, much smarter!
b. A bit smarter...
c. I cannot say.
d. A bit dumber at times.
e. Definitely dumber and I suffered from learning loss.

3

4

Innovative Learning Dreams...
December 1, 2020
Catherine Offord, The Scientist
https://www.the-scientist.com/infographics/infographic-the-technology-scientists-use-to-engineer-dreams-68171

5

Dreams of Smarter Learning...
Center for the Advancement of Teaching
Temple University, Paul Blaschko

6

October 27 and November 27, 2020
Robots on the rise as Americans experience record job losses amid pandemic
Lauran Arantani, The Guardian
https://www.theguardian.com/technology/2020/nov/27/article-replacing-jobs-automation-unemployment-us
U.S. Lost Over 60 Million Jobs—Now Robots, Tech And Artificial Intelligence Will Take Millions More
Jack Kelly, Forbes
https://www.forbes.com/sites/jackkelly/2020/10/27/us-lost-over-60-million-jobs-now-robots-tech-and-artificial-intelligence-will-take-millions-more/?sh=2ddf5f951a52
Millions of Americans Have Lost Jobs in the Pandemic—And Robots and AI Are Replacing Them Faster Than Ever
Video (1:20): http://curtbonk.com/automation.html
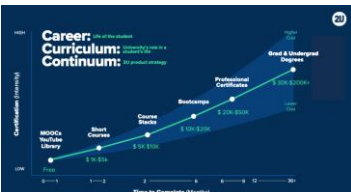Video (1:20): http://curtbonk.com/automation2.html

Automation could kill 73 million U.S. jobs by 2030

7

July 24, 2018
The 100-Year Life: Living and Working
in an Age of Longevity
Lynda Gratton and Andrew Scott
http://www.100yearlife.com/
https://www.amazon.com/100-Year-Life-Living-Working-Longevity/dp/1543624634

8

March 13, 2019
The Career Curriculum Continuum
Andrew Hermalyn, Inside Higher Ed
https://www.insidehighered.com/digital-learning/views/2019/03/13/how-universities-can-stay-center-learners-lives-opinion

9

February 25, 2020
The 60 Year Curriculum:
Developing New Educational Models to Serve the Agile
Labor Market
Chris Dede, Harvard University, The Evolllution
https://evolllution.com/revenue-streams/professional_development/the-60-year-curriculum-developing-new-educational-models-to-serve-the-agile-labor-market/
The 60-Year Curriculum with Rovy Branon
https://teibelinc.com/podcast/219

10

May 17, 2022
The Pandemic's Lasting Lessons for Colleges,
From Academic Innovation Leaders
Nadia Tamez-Robledo, Rebecca Koenig and Jeffrey R. Young, EdSurge
https://www.edsurge.com/news/2022-05-17-the-pandemic-s-lasting-lessons-for-colleges-from-academic-innovation-leaders

The Pandemic's Lasting Lessons for Colleges,
From Academic Innovation Leaders

11

October 20, 2022
Stanford Report Says Emergency Remote Instruction
Led to 'Shift' in University's Identity
Jeffrey Young, EdSurge
https://www.edsurge.com/news/2022-10-20-stanford-report-argues-emergency-remote-instruction-led-to-shift-in-university-s-identity
Lessons from Teaching and Learning at Stanford During the COVID-19
Pandemic, a report from Stanford Digital Education, examines
Stanford's experiences
Stanford Pandemic Ed Review, 2020-21
https://issuu.com/stanforddigitaleducation/docs/stanford_pandemic_ed_review_2020-21

Stanford Report Says Emergency Remote
Instruction Led to 'Shift' in University's Identity

12

2

August 24, 2022
Online Does Not Mean Isolated
Maha Bali, George Station, & Mia Zamora, Inside Higher Ed
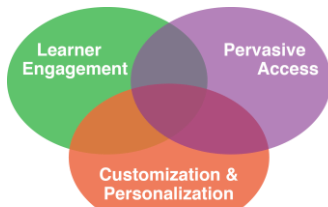https://www.insidehighered.com/views/2022/08/24/building-community-online-conferences-events-opinion

13

June 23, 2020
Turns Out You Can Build Community in a Zoom Classroom
Rachel Toor, The Chronicle of Higher Education
https://www.chronicle.com/article/Turns-Out-You-Can-Build/249038

14

30+ Ways Learning is Changing:
The Mega Trends

15

May 20, 2022
Yes, Students Are Disengaged. What Else Is New?
Robert Zaretsky, The Chronicle of Higher Education
https://www.chronicle.com/article/yes-students-are-disengaged-what-else-is-new
https://www.chronicle.com/article/a-stunning-level-of-student-disconnection
https://www.chronicle.com/article/how-to-solve-the-student-disengagement-crisis

16

May 17, 2022
No Fun for You!
Douglas Dowland, The Chronicle of Higher Education
https://www.chronicle.com/article/yes-students-are-disengaged-what-else-is-new

17

May 11, 2022
How to Solve the Student-Disengagement Crisis
Advice Forum, The Chronicle of Higher Education
https://www.chronicle.com/article/how-to-solve-the-student-disengagement-crisis

18

April 5, 2022
A 'Stunning' Level of Student Disconnection
Beth McMurtrie, The Chronicle of Higher Education
https://www.chronicle.com/article/a-stunning-level-of-student-disconnection

A 'Stunning' Level of Student Disconnection
Professors are reporting record numbers of students checked out, stressed out, and unsure of their future.

19

How Learning is Changing:
Mega Trend #1. Learner Engagement

social
mobile   hands-on
visual   touch-sensored
game-based   adventurous
digital & resource rich
immersive
collaborative

20

June 6, 2022
Learning is More Game-based
How teachers use Wordle–and other games–for next-level engagement
Laura Ascione, eSchool News
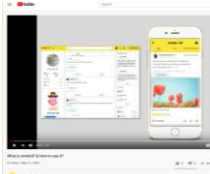https://www.eschoolnews.com/2022/06/06/how-teachers-use-wordle-for-next-level-engagement/2/

How teachers use Wordle–and other games–for next-level engagement

Laura Ascione
June 6, 2022

Wordle has gone viral, and such games are proving useful in the classroom as teachers leverage their popularity for student engagement

21

May 11, 2020
Learning is More Game-based
What is smileUP & How to use it?
SMILE, Paul Kim at Stanford
https://www.youtube.com/watch?v=pblU8sSALWo

22

March 21, 2021
Learning is More Digitally Rich
ELCL 6270: Teaching Physical Science with the STEAM Approach
Heejung An, William Paterson University
Hands-on, Minds-on, Hearts-on, Social-on: A Collaborative Maker Project Integrating Arts in a Synchronous Online Environment for Teachers
https://link.springer.com/article/10.1007/s11528-022-00740-x
Based on the Thinkering, Making, Sharing, and Reflecting (TMSR) model

23

July 8, 2022
Learning is More Digitally Rich
Multimedia News
Dinosaur discovered in Argentina suggests why many prehistoric predators had small arms
Wyatte Grantham-Philips, USA TODAY
https://www.usatoday.com/story/news/world/2022/07/08/new-dinosaur-species-argentina-meraxes-gigas/10011585002/

Dinosaur discovered in Argentina suggests why many prehistoric predators had small arms

This man and his dog spent seven years walking around the world

24

November 23, 2020
Learning is More Immersive
Can AR be the antidote to virtual classroom shortcomings?
Parker McDonnough, eSchool News
https://www.eschoolnews.com/2020/11/23/can-ar-be-the-antidote-to-virtual-classroom-shortcomings/2/
https://www.zdnet.com/article/view-pyramids-of-ancient-egypt-via-this-360-degree-vr-capture/
AR brings learning to life and allows students to experience education during distance learning. With AR, students can walk through Stonehenge, tour the Egyptian pyramids, go on a virtual field trip of the Louvre Museum, or explore the cavities of the human heart – all from the comfort of their homes. Students can even take a journey to outer space or visit UNESCO world heritage sites....explore Mount Rushmore or the muscular system in AR.

View the pyramids of Ancient Egypt in this 360 degree VR capture

25

June 1, 2022
Learning is More Immersive
Meet the Metaverse
Michael B. Horn, Education Next
https://www.educationnext.org/meet-the-metaverse-new-frontier-virtual-learning/

26

July 7, 2022
Better than a Zoom class: 10 metaversities to launch this fall
Micah Ward, University Business
https://universitybusiness.com/better-than-a-zoom-class-10-metaversities-to-launch-this-fall/?eml=20220708&oly_enc_id=5245J6858812A2J
Learning through virtual reality is becoming increasingly popular among schools and universities that were forced to alter their instruction methods because of the COVID-19 pandemic. A recent study showed that 40% of individuals learning through VR were more confident in applying what they've learned. In addition, they were 150% more engaged in the classroom.

The universities entering this new era of virtual reality include:
- Morehouse College
- University of Kansas School of Nursing
- New Mexico State University
- South Dakota State University
- West Virginia University
- University of Maryland Global Campus
- Southwestern Oregon Community College
- Northern Illinois University
- California State University Dominguez Hills
- Alabama A&M University

27

September 15, 2020
Holographic teaching presence:
Participant experiences of interactive synchronous seminars delivered via holographic videoconferencing
Nai Li* and David Lefevre, *Imperial College Business School, Imperial College London*
Research in Learning Technology, Vol. 28, 2020
https://journal.alt.ac.uk/index.php/rlt/article/view/2265

Community of Inquiry

Figure 1. The community of inquiry framework. Note: Garrison, Anderson, and Archer 2000.

Figure 3. An example of a display studio.

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How Learning is Changing:
Mega Trend #2. Pervasive Access

29

September 10, 2019
The Future of Learning, Transforming Access
Simon Nelson, CEO, FutureLearn, PCF9 Conference, Edinburgh, Scotland

30

March 20, 2021
Learning is More Online
These online classes can help you earn money from home: Digital marketing, video production, coding
Jennifer Jolly, USA Today
https://www.usatoday.com/story/tech/columnist/2021/03/20/online-classes-courses-digital-marketing-coding-video-project-mgt/4763042001/

31

October 14, 2022
Learning is More Online
A Surge in Young Undergrads, Fully Online
Susan D'Agostino, Inside Higher Ed
https://www.insidehighered.com/news/2022/10/14/more-traditional-age-students-enroll-fully-online-universities


32

June 13, 2022 (Khan World School)
Learning is More Online
Behind Khan Academy And Arizona State University's Khan World School Launch, Michael B. Horn, Forbes
https://www.forbes.com/sites/michaelhorn/2022/05/31/behind-khan-academy-and-arizona-state-universitys-khan-world-school-launch/
At present, the Khan World School is drawing interest from students around the world. The school will be free for students in Arizona by taking advantage of ASU's charter school. But for those localities where it isn't a public option, Khan said that they will be able to offer the school for less than $10,000.
The Khan World School is aiming to tackle that stereotype with a daily, synchronous seminar where students debate topics that often aren't discussed in school—things like "Will the Fed be able to control inflation?
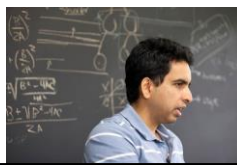
33

June 15, 2022
Learning is More Free and Open
Leaders & Legends of Online Learning
Dr. Mark Nichols' Podcast, Contact North
https://onlinelearninglegends.com/podcast/062-dr-george-veletsianos/

October 21, 2022
HyFlex Learning: Pros, Cons and the Future
Doug Lederman, Inside Higher Ed
https://www.insidehighered.com/quicktakes/2022/10/21/hyflex-learning-pros-cons-and-future
https://www.insidehighered.com/audio/2022/10/20/edit-pros-and-cons-hyflex-instruction
This conversation about the teaching modality features two professors who have both taught in the HyFlex format and done research on its impact.

34

February 4, 2022
Learning is More Free and Open
California 2-Year Colleges to Begin $115M OER Experiment
Suzanne Smalley, Inside Higher Ed (results in better grades, lower costs)
https://www.insidehighered.com/news/2022/02/04/gavin-newsom-115-million-bet-oer-community-colleges
https://sparcopen.org/our-work/california-governors-zero-textbook-cost-degree-budget-proposal/
https://calmatters.org/education/2021/01/newsom-fund-free-textbooks/
The grant program concluded in 2019 and it is anticipated that the 23 community colleges produced 34 Zero Textbook Cost degrees or certificates, saving 23,373 students approximately $42,912,828 in textbook costs resulting in an **858% ROI** (return on investment) from the original $5 million invested by the CA Community College Chancellor's Office.

35

Introducing the TEC-VARIETY Model

http://tec-variety.com/
http://tec-variety.com/TEC-VARIETY-Chinese.pdf

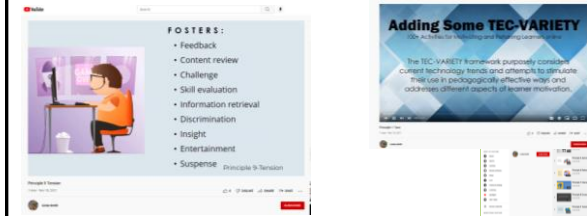**T**one/Climate
Encouragement, Feedback
Curiosity

Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products

36

6

November 18, 2021
YouTube Channels and Playlists
Linda Smith
https://youtube.com/playlist?list=PLGod3Oq20AHBKkIp7LE7SBJpygxVeHd4K

37

September 2022
Commonwealth of Learning
Khoo, E., & Bonk, C. J. (2022). *Motivating and Supporting Online Learners.* Burnaby, BC, Canada: Commonwealth of Learning. **Free book available: http://hdl.handle.net/11599/4481 and free course available: https://colcommons.org/welcome/coursedetails/8; https://www.colvee.org/**

38

September 23, 2022
Motivating and Supporting Online Learners
https://colcommons.org/my-course

39

November 4, 2022
Learning is More Synchronous
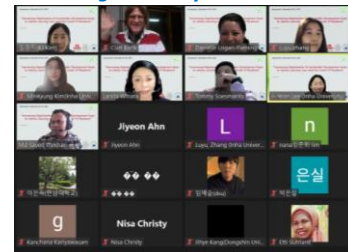
40

February 28, 2022
Online Global Panels
R678 with Tom Reeves, Tom Reynolds, Veronica Acosta, and Okhwa Lee
https://youtu.be/8Uu9vFDqixw

41

April 11, 2020
Learning is More Video-based…
(e.g., Flipgrid)
Ed Tech with Adam: **https://www.youtube.com/watch?v=hysv0PwqsFs**
https://techcrunch.com/2018/06/18/microsoft-acquires-social-learning-platform-flipgrid/

42

7
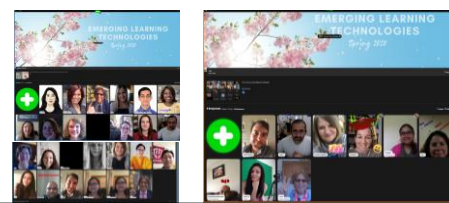
Learning is More Video-based…
Silver Lining for Learning
https://silverliningforlearning.org/
https://www.youtube.com/channel/UC9XEsh89qrIIpmVVpQt-_aA/live

43

How Learning is Changing:
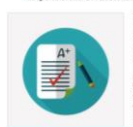**Mega Trend #3. Customization**

44

June 2, 2021
A Pandemic Silver Lining?
More People Are Talking About Teaching
Beckie Supiano, The Chronicle of Higher Education
https://www.chronicle.com/article/a-pandemic-silver-lining-more-people-are-talking-about-teaching

45

Mosaic Active Learning Classrooms
ALC at Indiana University

46

June 6, 2022
Why Notre Dame is boldly pushing ahead on
blend of live and remote learning
Chris Burt, University Business
https://universitybusiness.com/why-notre-dame-is-boldly-pushing-ahead-on-blend-of-live-and-remote-learning/
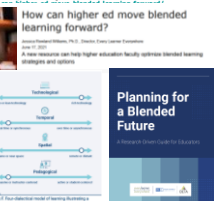

47

June 17, 2021
Learning is More Blended
How can higher ed move blended
learning forward?
Jessca Rowland Williams, eCampus News
https://www.ecampusnews.com/2021/06/17/how-can-higher-ed-move-blended-learning-forward/

48

8

June 17, 2021
Learning is More Blended
Free Book: Hybrid-Flexible Course Design
**https://edtechbooks.org/hyflex**

49

Fall 2021
Hybrid Modality: HyFlex Teaching
https://instructionalcontinuity.georgetown.edu/pedagogies-and-strategies/hybrid-hyflex-teaching/
HyFlex (a term coined by Brian Beatty) stands for a combination of "hybrid," meaning alternating between face-to-face meetings and remote interactions, and "flexible," meaning students move between these participation options.
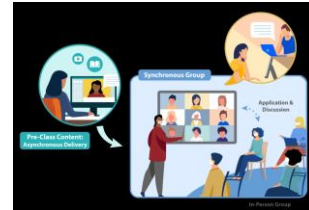
50

October 22, 2021
Wanted:
Billions of Self-Directed Learners

51

Learning is More Self-Directed
The LMS Market is Quickly Losing Ground
Carol Leaman, CLO
https://www.openlearning.com/
https://www.openlearning.com/
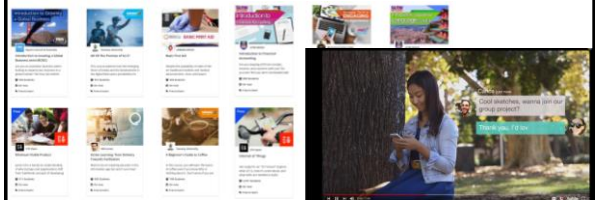
52

Learning is More Self-Directed
Language Lessons Online
e.g., BBC Learning English, Duolingo, Babbel, SpanishPod, etc.
(Zixi Li & Curt Bonk, June 2022, Duolingo Research)
http://www.bbc.co.uk/learningenglish

53

Benefits of Self-Directed Learners
https://discoverpraxis.com/reasons-not-to-go-to-college/

54

June 13, 2022 (Khan World School)
Behind Khan Academy And Arizona State University's Khan
World School Launch, Michael B. Horn, Forbes
https://www.forbes.com/sites/michaelhorn/2022/05/31/behind-khan-academy-and-
arizona-state-universitys-khan-world-school-launch/
At present, the Khan World School is drawing interest from students around the world. The school will be free to students in Arizona by taking advantage of ASU's charter school. But for those localities where it isn't a public option, Khan said that they will be able to offer the school for less than $10,000.
The Khan World School is aiming to tackle that stereotype with a daily, synchronous seminar where students debate topics that often aren't discussed in schools—things like "Will the Fed be able to control inflation?"

55

July 31, 2020
Learning is More Personal
Khan Academy aims to give 'strategic supplement'
Brett Molina, USA Today
https://www.usatoday.com/story/tech/2020/07/30/khan-academy-ceo-sal-khan-prepping-fall-virtual-learning/5525480002/

56

June 21, 2020
Learning is More Personalized
Video #1 (1:55) (June 21, 2021): Meet the Brains Behind Intel Lab:
Lama Nachma, https://www.youtube.com/watch?v=vDnigAbrbxM

57

June 16, 2021
Learning is More Personalized
AI voice actors sound more human than ever—and they're
ready to hire
Karen Hao, MIT Technology Review
https://www.technologyreview.com/2021/07/09/1028140/ai-voice-actors-sound-human/?utm_source=pocket-newtab
Voice (4:43): https://www.youtube.com/watch?v=YajBa5PO1Hk
Video downloaded: http://curtbonk.com/aivoice2.html
Audio (4 examples): http://curtbonk.com/aivoice.html

58

October 2020
Arizona State Accelerates Progress With Adaptive
Active Courses
Tom Vander Ark, Forbes
https://www.forbes.com/sites/tomvanderark/2019/03/21/arizona-state-accelerates-progress-with-adaptive-active-courses/?sh=341b03f265d5

59

August 20, 2019
ASU develops world's first adaptive-learning biology
degree, ASU News
https://www.insidehighered.com/news/2020/08/27/interest-spikes-short-term-online-credentials-will-it-be-sustained
Flipping the classroom increased performance and persistence. "Beckett Sterner and I got an ovation at the end of the junior-level major's course, Evolution — Biology 345, and also at the end of the class on zombies.... The results of the first effort were impressive.
"In its first semester, we saw student pass rates, in a nonmajors' Biology 100 course called The Living World, improve by 24% and dropout rates reduce by 90%..."

60

December 12, 2021
Learning is More On Demand
Cocohub: Bots, with a human touch
https://about.cocohub.ai/
Chatting with Chatbots and Text Buddies
Lindsey McKenzie, Inside Higher Ed
https://www.insidehighered.com/news/2019/09/06/expansion-chatbots-higher-ed
https://www.usatoday.com/story/tech/2019/11/08/alexa-google-assistant-ai-robots-become-substitute-friends/4057885002/

61

July 21, 2022
Chatbot boosts student performance at Georgia State
Laura Ascione, eCampus News
https://www.ecampusnews.com/2022/07/21/chatbot-boosts-student-performance-at-georgia-state/

62

November 1, 2022
Are Microcredentials Finally Gaining Traction?
Joshua Kim, Inside Higher Ed
https://www.insidehighered.com/blogs/learning-innovation/are-microcredentials-finally-gaining-traction
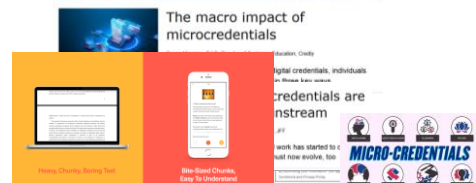
63

June 6 and 27, 2022
Microcredentials and Certificates
Susan Manning, Ed.D, Director of Customer Education, Credly, eSchool News
https://www.ecampusnews.com/2022/06/06/the-macro-impact-of-microcredentials/
https://learn.gnowbe.com/about

64

July 22, 2021
Shifting Paradigms: Understanding Institutional Perspectives on Microcredentialing
https://moderncampus.com/pdfs/shifting-paradigms-understanding-institutional-perspectives-on-microcredentialing.pdf

65

September 21, 2021
OPINION: Meet certificates and "microcredentials" — they could be the future of higher education
In years to come, they will become prevalent — and possibly preferred — to college degrees
Arthur Levine and Scott Van Pelt, Hechinger Report
https://hechingerreport.org/opinion-meet-certificates-and-microcredentials-they-could-be-the-future-of-higher-education/

A new book by Arthur Levine and Scott Van Pelt asks, How will America's colleges and universities adapt to remarkable technological, economic and demographic change? Credit: Johns Hopkins University Press
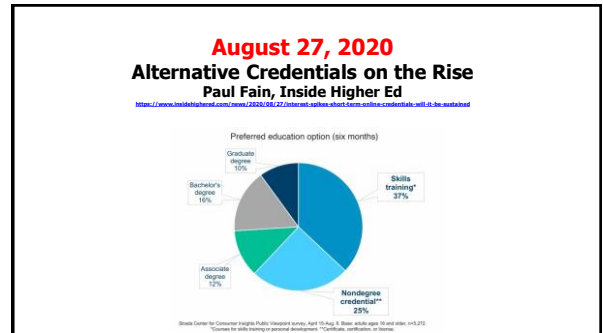
66

11

August 27, 2020
Alternative Credentials on the Rise
Paul Fain, Inside Higher Ed
https://www.insidehighered.com/news/2020/08/27/interest-spikes-short-term-online-credentials-will-it-be-sustained

Sources: Moody's, U.S. Department of Education

67

August 27, 2020
Alternative Credentials on the Rise
Paul Fain, Inside Higher Ed
https://www.insidehighered.com/news/2020/08/27/interest-spikes-short-term-online-credentials-will-it-be-sustained

68

February 6, 2021
Microlearning: A Pathway to Effective Training Retention and Behavioral Change
Jiani Wu, Venngage
https://venngage.com/blog/microlearning/
Microlearning (microlearning) Wesley Chai, TechTarget
https://www.techtarget.com/whatis/definition/microlearning

69

September 14, 2022
Artificial Intelligence Kill College Writing?
Online programs can churn out decent papers on the cheap. What now?
https://www.chronicle.com/article/will-artificial-intelligence-kill-college-writing

70

November 2, 2022
AI Transforming Education
Ray Schroeder, Inside Higher Ed
https://www.insidehighered.com/digital-learning/blogs/online-trending-now/ai-transforming-education

71

January 25, 2021
AI Generated Teachers, Tutors, and Students
Tom Bartlett, The Chronicle of Higher Education
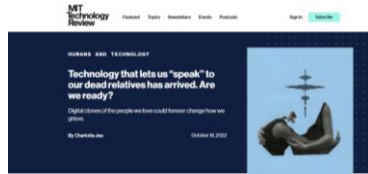https://www.futureme.org/

72

12

October 18, 2022
Technology lets us "speak" to our dead relatives has arrived. Are we ready?
Charlotte Gee, MIT Technology Review
https://www.technologyreview.com/2022/10/18/1061320/digital-clones-of-dead-people/

73

April 30, 2020
New Udemy Report Shows Surge in Global Online Education in Response to COVID-19
There has been an immense surge in enrollments in courses related to Telecommuting (21,598% increase) and Virtual Teams (1,523%), as well as Decision Making (277%), Self Discipline (237%), and Stress Management (235%).

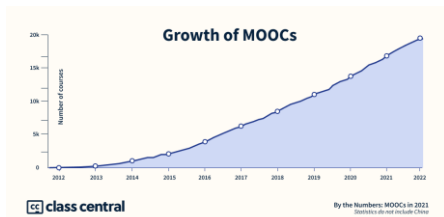Highest Enrollment Surges by Country Since Shelter in Place

74

December 14, 2021
Learning is More Massive
A Decade of MOOCs: A Review of MOOC Stats and Trends in 2021
Dhawal Shah, Class Central
https://www.classcentral.com/report/moocs-stats-and-trends-2021/

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February 1, 2021
Learning is More Massive
Yale is offering its highly popular 'happiness' course to high school students for free
By Marika Gerken, CNN
https://www.cnn.com/2021/02/01/us/yale-good-life-class-trnd-wellness/index.html
(3.4 million enrolled, 28,500 reviews)

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December 14, 2021
Learning is More Massive
A Decade of MOOCs: A Review of MOOC Stats and Trends in 2021
Dhawal Shah, Class Central

77

Baman Kumar Ghimire and Bishwa Raj Gautam, 2020
Greetings from Nepal, Baman Kumar Ghimire
Teacher, Motherland Secondary School, Pokhara
I held a workshop in a school about 70 students of age 13-15. I was excited to learn that in less than 8 months 78 students of age 10-15 from that school completed at least a MOOC.

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Marianne Krasny at Cornell et al., 2020
Chapter 16: Courses for a Cause:
MOOC Contributions to a "Better Place for All"

79

Balaji Venkataraman and Tadinada V. Prabhakar, 2020
Chapter 25. Responsive Innovations in MOOCs for Development: A Case Study of AgMOOCs in India and Africa
http://www.agmoocs.in/

80

March 22, 2021
Famous Stanford coding course seeks to repeat success of novel model of online learning
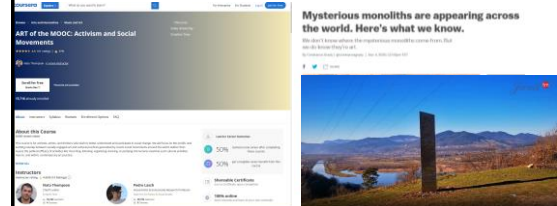**(10,000 students, 120 countries, 900 volunteer teachers)**
https://news.stanford.edu/2021/03/22/famous-stanford-coding-course-free-online/

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December 7, 2020
ART of the MOOC: Activism and Social Movements
Nato Thompson, Pedro Lasch, Duke, Coursera
https://www.coursera.org/learn/activism-social-movements
https://www.vox.com/culture/22062796/monoliths-utah-california-romania

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January 20, 2022
Arizona State University Announces Effort To Educate 100 Million Students Worldwide
Michael T. Nietzel, Forbes
https://www.forbes.com/sites/michaeltnietzel/2022/01/21/arizona-state-university-announces-effort-to-educate-100-million-students-worldwide/?sh=24c9b43d2bc8
Video (2:07): https://vimeo.com/667987472?embedded=true&source=vimeo_logo&owner=13433234
https://thunderbird.asu.edu/lifelong-learning/100-million-learners

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30+ Ways Learning is Changing:
Recapping the Three Mega Trends:
Engagement, Access, and Customization
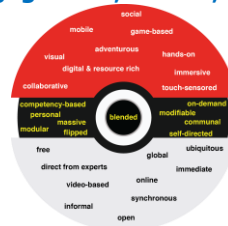
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A Dozen Questions for Smart Learning Environment Educators and Researchers...

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Dreams of Smarter Learning...
1. In what ways will learning be more personalized during the coming decade? How will this impact you and your potential?

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Dreams of Smarter Learning...
2. What means of automatic translation will exist in a decade? How much will you rely on it each day to function with international collaborators and documents in other languages?

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Dreams of Smarter Learning...
3. How effective will conversational agents become? What will learners commonly rely on them for?

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Dreams of Smarter Learning...
4. How will questions of learner engagement shift as learning becomes more immersive, massive, open, blended, visually-based, and online?

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Dreams of Smarter Learning...
5. What means of automatic translation will exist in a decade? How much will you rely on it each day to function with international collaborators and documents in other languages?

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Dreams of Smarter Learning…
6. What will the definition of "smart" be in 5 or 10 years? How about 20 years? 50 years? 100 years? Beyond?

Dreams of Smarter Learning…
7. Smart learning environments (SLEs) might monitor, track, and guide the learners in highly effective ways using knowledge maps and guides; but what happens when one or more learners feel the intrusive nature of that and purposively make decisions that run counter to personalized learner models?

Dreams of Smarter Learning…
8. Worse, what happens when learners fail to feel the intrusiveness or fail to feel disrupted by the learning pathways presented or the decisions or next moves that were made, at least in part, by the SLE?

Dreams of Smarter Learning…
9. How has the notion of the smart learning environment evolved over the past decade? How will it continue to evolve over the next decade? How will we know when we get there?

Dreams of Smarter Learning…
10. How will we know or recognize when we have arrived at a smarter stage in the evolution of learning environments? What will each signal tell us and what will be the signals at each stage?

Dreams of Smarter Learning…
11. How will digital archeologists and anthropologists and educational historians in 100, 200, 500, or 1,000 years come to view the coming era of SLE?

Dreams of Smarter Learning...
12. How smart must a learner be to take advantage of SLEs? Is there a threshold level of metacognitive skill required? Who will research and fashion SLEs for learners at different developmental levels or stages?

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Are we getting smarter... or sleepier?

GET SMARTER
LEARNING AND ORGANIZATIONAL DEVELOPMENT

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We are entering a jumping off point...
(South University of Science and Technology of China, Wednesday June 10, 2015)

100

Things are heating up!

101

The Learning Revolution is coming within reach!

102

Remember…
"I cannot do this alone."
"I cannot do this alone."
"I cannot do this alone."
"I cannot do this alone."

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Any Questions or Comments?

Slides at: TrainingShare.com (go to "Archived Talks)
Papers: PublicationShare.com
Free book: http://tec-variety.com/
Email: cjbonk@indiana.edu

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