

Week	Date	Day	Class Activity and Topic	Reading	Recommended Project Milestone
1	Jan-17	Tu	Group Affinity Diagramming: The Case for Technology in Education	There Are No Technology Shortcuts to Good Education. Kentaro Toyama. In edutechdebate.org, January 6, 2011.	Self-introductions on wiki.
	Jan-19	Th	Lecture: Mobile Phones and English Language Literacy in Rural Developing Regions	Imagining India: The Idea of a Renewed Nation. Nandan Nilekani. The Penguin Press, 2009. Chapter "S is for Schools: The Challenges in India's Classrooms", pp. 172-194.	
2	Jan-24	Tu	Lecture: Primary Schooling for the Poor in South Asia	The Beautiful Tree: A Personal Journey Into How the World's Poorest People are Educating Themselves. James Tooley. Cato Institute, 2009. Chapter 1: A Discovery in India ... Chapter 2: ... That Was No Discovery After All	Summary and reactions to 3 projects featured on Trucano's blog.
	Jan-26	Th	Lecture: Mobile Learning with Affordable Private Schools in India	Designing E-Learning Games for Rural Children in India: A Format for Balancing Learning with Fun. Matthew Kam, Aishvarya Agarwal, Anuj Kumar, Siddhartha Lal, Akhil Mathur, Anuj Tewari, and John Canny. In Proceedings of ACM Conference on Designing Interactive Systems (DIS '08), 2008.	
3	Jan-31	Tu	Lecture: Program Design / Instructional Design	Disrupting Class: How Disruptive Innovation Will Change the Way the World Learns. Clayton Christensen, Curtis W. Johnson, and Michael B. Horn. McGraw-Hill, 2008. Chapter 4: Disruptively Deploying Computers Chapter 9: Giving Schools the Right Structure to Innovate	Proposal (Problem statement and intended learners).
	Feb-2	Th	Class discussion on case study: Mobile Learning in Panama	How People Learn: Brain, Mind, Experience, and School. John D. Bransford, Ann L. Brown, and Rodney R. Cocking (Eds.). National Academy Press, 1999. Chapter 6: The Design of Learning Environments Utilizing Multimedia Capabilities of Mobile Phones to Support Teaching in Schools in Rural Panama. Elba del Carmen, Valderrama Bahamondez, Christian Winkler, and Albrecht Schmidt. In Proceedings of the Conference on Human Factors in Computing Systems (CHI '11), 2011.	
4	Feb-7	Tu	Lecture: The Psychology of Motivation	Drive: The Surprising Truth About What Motivates Us. Daniel H. Pink. Riverhead, 2009. Chapter 4: Autonomy Chapter 5: Mastery Chapter 6: Purpose	Competitive analysis.
	Feb-9	Th	Class discussion on case study: The "Quest to Learn" School	Quest to Learn: Developing the School for Digital Kids. Katie Salen, Robert Torres, Loretta Wolozin, Rebecca Rufo-Tepper, and Arana Shapiro. The John D. and Catherine T. MacArthur Foundation Reports on Digital Media and Learning, 2010. Chapter "Curriculum Structure", pp. 73-90. Chapter "Key Characteristics", pp. 91-116. Chapter "Sample Discovery Mission and Quests", pp. 117-132.	
5	Feb-14	Tu	Lecture: How Experts Differ from Novices	How People Learn: Brain, Mind, Experience, and School. John D. Bransford, Ann L. Brown, and Rodney R. Cocking (Eds.). National Academy Press, 1999. Chapter 1: Learning: From Speculation to Science Chapter 2: How Experts Differ from Novices	Proposal (Program design).
	Feb-16	Th	Class discussion on case study: Making Computers More Accessible with Intelligent Tutors	Evaluating an Adaptive Multi-User Educational Tool for Low-Resource Environments. Emma Brunskill, Sunil Garg, Clint Tseng, Joyojeet Pal, and Leah Findlater. International Conference on Information and Communication Technologies and Development, 2010.	

6	Feb-21	Tu	Lecture: Prior Knowledge	Pratham ASER (Annual Status of Education Report).	
	Feb-23	Th	Class discussion on case study: Pratham ASER (Annual Status of Education Report)		How to teach your selected topic in an engaging way?
7	Feb-28	Tu	Lecture: Constructivism and Scaffolding	How People Learn: Brain, Mind, Experience, and School. John D. Bransford, Ann L. Brown, and Rodney R. Cocking (Eds.). National Academy Press, 1999. Chapter 4: How Children Learn Cultural Psychology: A Once and Future Discipline. Michael Cole. Belknap Press, 1996. Chapter 10: A Multilevel Methodology for Cultural Psychology	
	Mar-1	Th	Class discussion on case study: One Laptop Per Child and the Classmate PC	Infrastructures for Low-Cost Laptop Use in Mexican Schools. Ruy Cervantes, Mark Warschauer, Bonnie Nardi, and Nithya Sambasivan. In Proceedings of the Conference on Human Factors in Computing Systems (CHI '11), 2011.	Curriculum (30 minutes of lesson).
8	Mar-6	Tu	Lecture: Transfer	How People Learn: Brain, Mind, Experience, and School. John D. Bransford, Ann L. Brown, and Rodney R. Cocking (Eds.). National Academy Press, 1999. Chapter 3: Learning and Transfer	
	Mar-8	Th	Class discussion on case study: Decision Making by Functionally Illiterate Adults	Decision Making and Coping of Functionally Illiterate Consumers and Some Implications for Marketing Management. Madhubalan Viswanathan, Jose Antonio Rosa, and James Edwin Harris. <i>Journal of Marketing</i> , 69(1), 2005, pp. 15-31.	Proposal (Profile of learner's prior knowledge).
9	Mar 12-16	M-F	<i>Spring Break: No Classes</i>		
10	Mar-20	Tu	Lecture: STEM Education (Science, Technology, Engineering and Mathematics)	How People Learn: Brain, Mind, Experience, and School. John D. Bransford, Ann L. Brown, and Rodney R. Cocking (Eds.). National Academy Press, 1999. Chapter 7: Effective Teaching: Examples in History, Mathematics, and Science	
	Mar-22	Th	Class discussion on case study: Science learning games	Learning Science Through Computer Games and Simulations. Margaret A. Honey, and Margaret L. Hilton. (Eds.). National Academy Press, 2011. Chapter 1: Introduction Chapter 2: Learning with Simulations and Games	Storyboard I (Constructivist design).
11	Mar-27	Tu	Lecture: Reading Literacy	Print Literacy Development: Uniting Cognitive and Social Practice Theories. Victoria Purcell-Gates, Erik V. Jacobson, and Sophie Degender. Harvard University Press, 2004. Chapter 5: Print Literacy as Cognitive Skill Development.	
	Mar-29	Th	Class discussion on case study: Talking Pen	Mobile technology for children: Designing for interaction and learning. Allison Druin (Ed.). Morgan Kaufmann, 2009. Chapter 9: Leapfrog Learning Design: Playful Approaches to Literacy, from LeapPad to the Tag Reading System.	Storyboard II (Designing for transfer).
12	Apr-3	Tu	Lecture: Bilingualism	How Languages Are Learned. Patsy M. Lightbown, and Nina Spada. Oxford University Press, 2006. Chapter 7: Popular Ideas About Language Learning Revisited.	
	Apr-5	Th	Class discussion on case study: Speech Recognition for Language Learning	Improving Child Literacy in Africa: Experiments with an Automated Reading Tutor. G. Ayorkor Mills-Tettey, Jack Mostow, M. Bernardine Dias, Tracy Sweet, Haijun Gong, Sarah Belousov, and M. Freddie Dias. In Proceedings of IEEE/ACM Conference on Information and Communication Technology and Development (ICTD '09), Doha, Qatar, April 17-19, 2009.	Storyboard III (Domain-specific teaching).
13	Apr-10	Tu	Lecture: Dual Channel Theory and Multimedia Learning	The Cambridge Handbook of Visuospatial Thinking. Priti Shah and Akira Miyake (Editors). Cambridge University Press, 2005. Chapter 12: Multimedia Learning: Guiding Visuospatial Thinking with Instructional Animation.	
	Apr-12	Th	Class discussion on case study: Talking Book	Impact of Low-Cost, On-Demand Information Access in a Remote C	Storyboard IV (Domain-specific teaching).

14	Apr-17	Tu	Guest lecture by Christopher Wu: The History of Education	School Reform: A Failing Grade. Diane Ravitch. New York Times, September 29, 2011.	
	Apr-19	Th	No class due to Spring Carnival	n.a.	
15	Apr-24	Tu	Lecture: Economics of Educational Technology	Learning Science Through Computer Games and Simulations. Margaret A. Honey, and Margaret L. Hilton. (Eds.). National Academy Press, 2011.	
				Chapter 6: Bringing Simulations and Games to Scale Unlocking the Gates: How and Why Leading Universities Are Opening Up Access to Their Courses. Taylor Walsh. Princeton University Press, 2011.	Storyboard V (Multimedia design)
	Apr-26	Th	Class discussion on case study: CMU's Open Learning Initiative	Chapter 4: Digital Pedagogy: Carnegie Mellon University's Open Learning Initiative	
16	May-1	Tu	Guest lecture by Kentaro Toyama	There Are No Technology Shortcuts to Good Education. Kentaro Toyama. In edutechdebate.org, January 6, 2011.	
	May-3	Th	Poster and demo session	n.a.	