

# Computers, Technology and Education

Instructor: Kristen Kozloski, PhD  
EDCG 610 ~ Spring 2010  
February 1, 2010 to May 7, 2010



This course will use Ning (<http://techandlearninginnovation.ning.com/>) and Wikispaces (<http://techandlearninginnovation.wikispaces.com/>) as it's primary tools for coursework posting and presentation. Grades will be housed in Blackboard at UMB and our live classrooms will be held there also in the Wimba classroom. Please take time to prepare your computer PRIOR to live classrooms. You can reach me via email, chat or phone or text.

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## Weeks at a Glance

Week 1	Monday, February 1, 2010 to Sunday February 7, 2010 11:59 pm
Week 2	Monday, February 8, 2010 to Sunday February 14, 2010 11:59 pm
Week 3	Monday, February 15, 2010 to Sunday February 21, 2010 11:59 pm (Live)
Week 4	Monday, February 22, 2010 to Sunday February 28, 2010 11:59 pm
Week 5	Monday, March 1, 2010 to Sunday March 7, 2010 11:59 pm
Week 6	Monday, March 8, 2010 to Sunday March 14, 2010 11:59 pm (Live)
Week 7	Monday, March 15, 2010 to Sunday March 21, 2010 11:59 pm
Week 8	Monday, March 22, 2010 to Sunday March 28, 2010 11:59 pm
Week 9	Monday, March 29, 2010 to Sunday April 4, 2010 11:59 pm (Live)
Week 10	Monday, April 5, 2010 to Sunday April 11, 2010 11:59 pm
Week 11	Monday, April 12, 2010 to Sunday April 18, 2010 11:59 pm
Week 12	Monday, April 19, 2010 to Sunday April 25, 2010 11:59 pm (Live)
Week 13	Monday, April 26, 2010 to Sunday May 2, 2010 11:59 pm
Week 14	Monday, April 26, 2010 to Sunday May 2, 2010 11:59 pm
Week 15	Monday, May 3, 2010 to Sunday May 7, 2010 11:59 pm

## Course Assignments at a Glance

Details will presented as class progresses.

Ning Intro	10
Mind Map	20
Student Survey	20
Co-Constructed Graphic Organizers (2)	40
Problem-Based Learning Activity	20
Current Event in Technology & Education	20
Initial Lesson	30
Revised Lesson	30
Lesson Reflection	10
New Statement: Role of Techmology	20
Blog Posts (11)	110
Class Participation 150 (10 pts per week)	150
Diigo Posts (7 total)	70

**Total Points 550**

**Course Expectations:**

- Take personal responsibility for course: Be one communicative and responsive, Do all readings, Check and complete Assignments on time as assigned.
- Check that you can access readings – do not wait until the last minute to see if you can download readings.
- If you do are unable to attend an online class it is your responsibility to view the archive and complete missed work (the syllabus is ALWAYS subject to change).
- Independent and collaborative participation expected.
- Papers – must be submitted electronically and must be in professional form. (Title page, 10 or 12 point font, double spaced, numbered pages and references. Use APA style for in text references and bibliography).

**Detailed Outline of Course and Assignments**

<b>Week 1 Monday, February 1, 2010 to Sunday February 7, 2010 11:59 pm</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
Who are we teaching? What should our teaching look like?	What are the characteristics of millennial kids?	<ol style="list-style-type: none"> <li>1. Sign up and complete an introduction on the <a href="#">Ning site</a> on your profile page. Please be sure to add a picture.</li> <li>2. Watch Videos in forum for Week 1. Comment on each.</li> <li>3. Draft a <a href="#">mind map</a> to brainstorm the characteristics of today's kids.</li> <li>4. Draft a survey for your students (to be revised after readings in Week 2).</li> <li>5. Order you Cambridge Handbook of the Learning Sciences.</li> <li>6. <b>Blog Entry:</b> (What is the role of technology in education: the role of the teacher and the role of the student - in relation to this topic.)</li> </ol>
<b>Week 2 Monday, February 8, 2010 to Sunday February 14, 2010 11:59 pm</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
Who are we teaching? What should our teaching look like?	What are the characteristics of millennial kids? Considering the connection between technology, learning, and society: how is technology facilitating particular ways of learning, playing, and working? What does this have to do with me and my classroom?	<ol style="list-style-type: none"> <li>1. Join our wikispace: <a href="http://techandlearninginnovation.wikispaces.com/">http://techandlearninginnovation.wikispaces.com/</a></li> <li>2. Read the following: <ul style="list-style-type: none"> <li>- <a href="#">Growing up Digital</a></li> <li>- <a href="#">Digital Youth</a></li> <li>- <a href="#">Opening up Education</a>: Forward by Seely-Brown (pp 13 – 19)</li> </ul> </li> <li>3. Revise your <a href="#">mindjets</a> - save and post them on the <a href="#">wiki</a>.</li> <li>4. Use Audacity or garage band (or the tool of your choice) to complete an audio blog entry on Ning. Talk about 1) what you learned about digital youth? 2) what you think this means for your teaching, and 3) what your experience was like.</li> </ol>
<b>Week 3 Monday, February 15, 2010 to Sunday February 21, 2010 11:59 pm (Live Class Online)</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
Finding out about your kids	What do I know about my kids use of and access to technology? How does this help me to think about their engagement in learning?	<p>Use google docs to create and complete a survey of your students (we will review how to do this online together). The questions should reflect the readings - what are you interested in knowing about your students based upon what you read?</p> <p>Have your students (if possible) take the survey online (google forms). Post your results on the wiki (link and share it with all of us) the survey to the wiki.</p> <p>Sign up for <a href="#">diigo</a> and <a href="#">poll everywhere</a> Use vimeo to create a vlog (video blog) reflecting on your survey.</p>

Week 4 Monday, February 22, 2010 to Sunday February 28, 2010 11:59 pm		
Topic	Framing Question	Activities/Assignments
Foundational Frameworks	<p>What do we know about learning - how does technology support this? Generating an understanding of the most current research on how people learn - what, why, and how technology?</p> <p>What is the history and trajectory of what we know about how people learn?</p>	<p>Read:</p> <ul style="list-style-type: none"> <li>• <a href="#">Chapter 1</a>: From Science to Speculation (HPL)</li> <li>• <a href="#">Chapter 6</a>: The Design of Learning Environments (HPL)</li> <li>• <a href="#">Sawyer; Introduction: The New Science of Learning*</a></li> </ul> <p>Groups will be formed here for Week 5 work.</p> <p>Complete a Blog Entry (write, audio or vimeo) reflecting on readings and how they influence your thinking about the role of technology in teaching and learning.</p>
Week 5 Monday, March 1, 2010 to Sunday March 7, 2010 11:59 pm		
Topic	Framing Question	Activities/Assignments
Understanding learning designs and the role of technology to support learning	What is the design? What aspects of the foundational design principles exist in the design? What is the role of technology within each of the four frames?	<p>Each group co-constructs graphic organizer to prepare to teach others their chapter and topic (live in Week 6).</p> <p>Group 1 - <a href="#">Ch. 3: Constructionism – Kafai</a></p> <p>Group 2 - <a href="#">Ch 4: Cognitive Apprenticeship - Allan Collins</a></p> <p>Group 3 - <a href="#">Ch. 7: Knowledge Building: Theory, Pedagogy, and Technology</a> Marlene Scardamalia and Carl Bereiter</p> <p>Group 4 - <a href="#">Ch 8: Learner-Centered Design: Reflections on the Past and Directions for the Future: Chris Quintana, Namsoo Shin, Cathleen Norris, and Elliot Soloway</a></p> <p>Group 5 - <a href="#">Ch. 14: Case-Based Reasoning</a></p> <p>For Discussion</p> <p>How people learn - review and applications: main points and graphical constructions of themes across the readings.</p> <p>Complete a Blog Entry (write, audio or vimeo) reflecting on class activities and how they influence your thinking about the role of technology in teaching and learning. )</p>
Week 6 Monday, March 8, 2010 to Sunday March 14, 2010 11:59 pm (Live Class Online)		
Topic	Framing Question	Activities/Assignments
Understanding learning designs and the role of technology to support learning	What is the design? What aspects of the foundational design principles exist in the design? What is the role of technology within each of the four frames?	<p>Readings:</p> <p><a href="#">Ch. 15: The Knowledge Integration Perspective on Learning and Instruction</a></p> <p><a href="#">Ch. 20: Making Authentic Practices Accessible to Learners: Design Challenges and Strategies</a></p> <p>Complete a Blog Entry (write, audio or vimeo). Describe these learning designs. What is the role of the tech, the teacher and the learner in each? How do these influence how you think about your own teaching? Describe a concrete application.</p>

<b>Week 7 Monday, March 15, 2010 to Sunday March 21, 2010 11:59 pm</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
Understanding learning designs and the role of technology to support learning	What is the design? What aspects of the foundational design principles exist in the design? What is the role of technology within each of the four frames?	<p>Readings:  <b>Ch. 19: Project-Based Learning</b>  <a href="http://www.edutopia.org/classroom-design-k12-laboratory">http://www.edutopia.org/classroom-design-k12-laboratory</a></p> <p>Create a technology supported PBL activity</p> <p>Complete a Blog Entry (write, audio or vimeo) explaining this activity and how it ties to what you are learning.</p>
<b>Week 8 Monday, March 22, 2010 to Sunday March 28, 2010 11:59 pm</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
<p style="text-align: center;"><b>** Spring Break **</b></p> <p style="text-align: center;">Find current event in education relating to our class.  Post Link and 2-3 paragraph annotation of event.  (1 paragraph summary, at least 1 paragraph reflection on how this current events relates to what we are learning in class)</p>		
<b>Week 9 Monday, March 29, 2010 to Sunday April 4, 2010 11:59 pm (Live Class Online)</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
Understanding learning designs and the role of technology to support learning	What is the design? What aspects of the foundational design principles exist in the design? What is the role of technology within each of the four frames?	<p>In this live class we will discuss lesson creation for Week 10. You will choose one of the following 5 topics. Based on this choice, you will work in groups online to co-construct a graphic organizer.</p> <p>Readings:  <b>Group 1: BioKIDS: An Animated Conversation on the Development of Curricular Activity Structures for Inquiry Science</b>  <b>Nancy Butler Songer</b></p> <p><b>Group 2:</b>  <b>Computer-Supported Collaborative Learning - Gerry Stahl, Timothy Koschmann, and Daniel D. Suthers</b></p> <p><b>Group 3:</b>  <b>WILD for Learning: Interacting Through New Computing Devices Anytime, Anywhere - Roy D. Pea and Heidy Maldonado</b></p> <p><b>Group 4:</b>  <b>Ch 26: Arguing to Learn - Jerry Andriessen</b></p> <p><b>Group 5:</b>  <b>Learning in Online Communities - Amy Bruckman</b></p> <p>Your team will create a presentation (google docs pp tool or other approved tool) to present the main points of your article. These will be posted on the appropriate forum link. Each person is expected to view the presentations (not their own of course) and add comments to forum).</p> <p>Complete a Blog Entry (write, audio or vimeo) reflecting on this activity and how your learning influences your thinking about the role of technology in teaching and learning.</p>

<b>Week 10 Monday, April 5, 2010 to Sunday April 11, 2010 11:59 pm</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
Designing your own...  Identifying your community and drawing on learners ways of knowing, etc.	Using different technologies, we will collectively create a vision of: 1) the relationship between technology, learning, and society.  2) Develop a vision of 21st century learning.  What do you know about your community? How does this assist you in creating your learning designs?	Chose a lesson that you will be doing in the week of April 19. Start to work on the lesson that you will redesign and implement.  Create lesson maps based on the imaging the framework document.  Complete a Blog Entry reflecting on this work and how it influences your thinking about the role of technology in teaching and learning.
<b>Week 11 Monday, April 12, 2010 to Sunday April 18, 2010 11:59 pm</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
Designing your own...  Creating Knowledge and Assessments	What is the context for learning? What is the learning design? What activities support your design? What kinds of assessments occur throughout?	Post your lesson on the appropriate Ning forum. You will respond to each others' lessons.  Based on the comments, adapt to the lesson - still concentrating on the HPL framework.  Complete a Blog Entry reflecting on the week's activities and how they influence your thinking about the role of technology in teaching and learning.
<b>Week 12 Monday, April 19, 2010 to Sunday April 25, 2010 11:59 pm (Live Class Online)</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
Presentations and Peer Review	How is your peer's design reflecting the frames of HPL? What can we offer in terms of support to help make this design better?	Make any revisions to your lessons.  In live class - Mini lesson presentations and discussions  Post the final revised lesson on the wiki.  Complete a Blog Entry reflecting on the day's activities and how they influence your thinking about the role of technology in teaching and learning.

<b>Week 13      Monday, April 26, 2010 to Sunday May 2, 2010 11:59 pm</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
Implement your lessons	What were the positives of my lesson? What could I change?	Blog Post: Reflection of lesson
<b>Week 14      Monday, April 26, 2010 to Sunday May 2, 2010 11:59 pm</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
Reflections and Discussion	How did this class reflect HPL? How did different technologies support our work and participation?	Presentation of lesson - graphic (similar to those created for the Imaging the framework assignment) Reflection sharing Class reflections Class Evaluation
<b>Week 15      Monday, May 3, 2010 to Friday May 7, 2010 11:59 pm</b>		
<i>Topic</i>	<i>Framing Question</i>	<i>Activities/Assignments</i>
Finals Due **Note, by May 7, Friday!!**	How did all the pieces come together to inform my lesson?	<b><i>Finals Due May 7<sup>th</sup>!!</i></b> Final includes pulling all of the pieces together and written up: Lesson Reflection (posted previously on wiki) New Statement: What is the role of technology in education, the role of the teacher, the role of the student - APA - 8 Pages - Must use readings to inform this version  Post final on wiki ( <a href="http://techandlearninginnovation.wikispaces.com/Spring10+Final+Projects">http://techandlearninginnovation.wikispaces.com/Spring10+Final+Projects</a> )