I. On-line content to augment lecture

II. Web meetings to support instruction

CoE Tuesday Brownbag Conversation
November 13, 2007
Roadmap

✴ the Big Picture: leveraging new tools to increase faculty flexibility ...
✴ When you are at a conference: options to keep your class going...
✴ Electronic office hours: flexibility for you and your students
✴ Augmenting course content with web voice-over screen movies: active learning methods
the Big Picture: leveraging new tools to increase faculty flexibility ...
Tools are not magic…but

[*] the beginning is good instructional design

[*] whether using tools to connect to a class remotely or using the web as a delivery medium for class content, engaging students in their learning is the focus
When you are at a conference or otherwise away from campus ... options to keep your class going...
Options when you are away

✴ when it's time for class on campus - conduct a remote meeting with your class in your normal classroom
✴ when it's time for class - conduct a remote meeting, but let each student connect wherever they like
✴ develop a set of PowerPoint slides and produce a voice-over web presentation
Recording of using Adobe Connect to conduct a remote class meeting in real time
ChE 433, Process Design and Optimization. Faculty: Kris Berglund and Marty Hawley.

Kris is off campus

Desire was to have the class proceed and provide a means for Kris to interact as though he were here

Kris is using a tablet computer

Class meets in Anthony 1279...

https://meeting.egr.msu.edu/p36067831/

(a) at 16:00 in the recording and (b) at 27:00
Points about 433 Session (16:00 to 18:00)

Kris is using

- uploaded slides he produced
- whiteboard overlay with his tablet computer
- active camera and voice
- just his normal style of give and take (engaging the students by answering questions they have submitted based on the previous session - and setting new questions)
Points about 433 Session (27:00 to 29:45)

✴ using one simple camera in the classroom

✴ instructionally - allowing active question in real time to engage the students

✴ for the class in the big picture - keeping logistics in hand. Keeping the students focused. Maybe the biggest win for this technology
Importance of solid instructional design!

✴ the give and take that goes on in ChE 433 is evident

✴ the mode of interaction is already in place

✴ the technology just supports the instructional design even though a faculty person is not physically present
Variation on the theme

- the class could have meet in a virtual classroom... that is...
- each student could have logged into the class on their own computer or on a computer in a campus lab
- downside to that arrangement is trying to manage interaction for a large number of connected computers
Recording of class material before you leave and making it available to students
Setting

- CSE 131, Problem Solving with Computer Tools (MATLAB). Faculty: Jon Sticklen.
- Jon could have been off campus
- Desire was to make available to students course content during a potential absence - and ...
- Adobe Presenter was used for this

[URL] https://meeting.egr.msu.edu/unit07/
- (a) slides 2-3, (b) slide 37, (c) slide 19
Points about 131 Screen Movie (slides 2-3)

✴ students can control how they go through the material - if they miss a point, they can repeat the point by rewinding the tape and replaying

✴ production of the voice over screen movie required only Adobe Presenter and a reasonable microphone

✴ uploading of the screen movie is turnkey
Embedding screen demos in presentations for the web (slide 37 in the movie)

★ the screen demo can be built with Camtasia or Adobe Captivate ... or with any software that produces FLASH code.

★ once the FLASH code is produced, inserting it into a Presenter slide set is turnkey
Embedding Quizzes (start from Slide 19)

- Embedding quizzes is just an example of active learning - the quizzes keep the students engaged
- The quizzes can be set to allow multiple takes
- ... or even to direct conditional paths through the screen movie
Step back - tools that we have available ...

<table>
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<tr>
<th>Tool</th>
<th>Purpose</th>
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| Adobe Connect | 1. real time meetings  
               | 2. content server for web presentations          |
| Adobe Presenter | prepare voice over PowerPoint  
                        | screen movies                                    |
| Adobe Captivate | capture screen demos                           |
| Camtasia    | 1. capture screen demos  
               | 2. prepare voice over PowerPoint  
                        | screen movies                                    |
Advantages of using Connect framework

✴ Turnkey uploading to the Connect server for distribution

✴ Turnkey quiz result handling
Camtasia still a valuable tool

- esp for creating full motion screen demos

- the real point is to match the tools available to what it is that you as a faculty person are trying to accomplish
Camtasia demo
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Coming up next term

- this discussion has focused on the results of using some of the new College tools
- workshop on using Connect for remote classroom and e-office hour use
- workshop on using Presenter to develop online content, including embedded quizzes
- workshop on using Camtasia for creating full motion screen demos for embedding
Goal: develop infrastructure to support faculty use of instructional technology in COE

- long term the goal is to support faculty in the use of technology for instruction
- part of the story is helping to stay abreast of new possibilities ...
- part of the story is - feedback from all faculty on what goals you are trying to meet