Active Learning in the Flipped/Blended Class

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**Recommended Citation**  
AGENDA

Preparation
- Tools for Creation
- Hands-on Learning with Camtasia

Delivery
- Active Learning strategies
- Faculty Examples

Assessment
- Tools for Assessment
PREPARATION

RELEVANT TECHNOLOGIES
TOOLS FOR CREATION

Explore tools supported by Purdue for multimedia creation/editing/sharing/simulation/publication/assessment

- Boilercast/Echo 360
- Camtasia/PowerPoint
- SnagIt
- Kaltura
- Video Express
TOOLS FOR CREATION

Lecture Capture System
http://www.itap.purdue.edu/learning/tools/boilercast/

High-quality screen capture tool
http://www.itap.purdue.edu/learning/tools/snagit/

Video hosting and sharing tool
http://www.itap.purdue.edu/learning/tools/kaltura/
TOOLS FOR CREATION

VIDEO EXPRESS

Set up an appointment by

Phone
765/237-9790

Email
pec.support@purdue.edu or

Or Visit
STEW G-54J.
HANDS-ON
OVERVIEW

Recording
• Camtasia Plug-In via PowerPoint
• Directly in Camtasia

Editing
• Frequently Used Features

Saving/Publishing
Dr. Russell Mumper of UNC at Chapel Hill flipped his Pharmacy class and saw stellar results.

Active Ingredients For The Flipped Classroom

Dr. Mumper flipped his class in three easy steps.

1. **Record**
   - 25 lectures were recorded with Echo360, each just 35 minutes long.

2. **Watch**
   - Students tune in and watch videos the night before class.
   - 97% watched more than 20 of the 25 lectures

3. **Active Learning**
   - Students arrive to class ready to engage and participate.

"It's all about application. It's great to be able to come to class and not just sit there and passively take notes."
Dr. Mumper changed each 75 minute class from the old-style lecture into:

4 Active Learning Exercises

1. Audience response questions validate that students understand the recordings
2. Open-ended questions reinforce student knowledge while working with their peers
3. Students read & discuss a research topic, guided by the instructor
4. A ten-question quiz ends each class
A Sample of activities for Students Working in Pairs....

- **Guided analysis** – Walk students through the procedure for performing an analysis of a document, video, news item, etc... in class. Put students in pairs and allow them to analyze their own documents using the procedures you have provided.

- **Word Pairs** – Students write down the key terms for the lesson then they exchange papers and write in definitions, then discuss.

- **Small Ad-Hoc Groups** – Provide students with a focused problem, case study, question or exercise that they must address in a group.

- **One Minute Question** – Key ideas learned from class.

- **Pair or small group presentations** – A select few may participate in each iteration of this activity.

- **Bookends**
  - Begins with an engagement activity.
  - The middle part is a series of back-and-forth transitions between the instructor talking and students working individually and then in pairs or threes.
  - End with a guided reflection.
| Ellen Gundlach  
| STAT113 |
| Andy Hirsch  
| PHYS 172 |
| Mark French  
| MET 213 |

- Online lectures
- Online homework,
- Mixable discussion assignments
- "flipped" class discussion/ active learning sections
- Peer-to-peer learning and better conversations with the instructor.

- pre-lecture videos that contain quiz questions with feedback to just-in-time-teaching based on responses
- iClickers.
- moving towards a “studio model” similar to SCALE-UP.

- Traditional lectures supplemented with videos of working out problems
- hands-on project where students practical application of core principles
RELEVANT TECHNOLOGIES

ASSESSMENT
TOOLS FOR ASSESSMENT

• Blackboard
• Blackboard Learn – Blackboard Retention Center/
• Respondus/Lock-Down Browser
• Course Signals

http://www.itap.purdue.edu/learning/innovate/chart01.html
TOOLS FOR ASSESSMENT

• Adding Low Stakes Assessment via Camtasia:
  – True False
  – Multiple Choice
  – Fill-In the Blanks

http://www.itap.purdue.edu/learning/innovate/chart01.html
Need 1-on-1 Training?

Reflections on Teaching and Learning

Upcoming Workshop

Jan. 10:
Blackboard Assessments and Assignments, Automating Blackboard Content, Camtasia-Emphasizing Content

http://www.itap.purdue.edu/training/calendar/
Need 1-on-1 Training?

Contact Us

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Evaluation


Session- Active Learning in the Flipped/Blended Classroom

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