

Do you have any additional comments about the Sympodium versus the chalkboard as a presentation method?

Answers

- No (x15)
- There is nothing the chalkboard can do better than the Sympodium, especially in terms of understanding. The Sympodium is a great tool and I think every class should use it.
- Sympodium is good because sometimes I cannot recognise the handwriting from professor.
- chalkboards are hard to read, not as efficient, out of date, & they hurt your ears. sympodium is 100000 times better
- I loved how it is recorded so you can go back and re-learn the material.
- I like the Sympodium more
- With the sympodium, the teachers writing was very easily read and easier to understand
- very handy tool
- I usually don't take notes since I can go online later and look at the notes if I need to, which allows me to listen more and understand/comprehend better.
- Definitely with slides already prepared its too easy for the lecturer just to advance slides quickly and then you don't know whats going on.
- The sympodium caused the lecture to go to quickly but it made up for that fact by being able to re-watch the lecture. Please post the recording immediately after the lecture otherwise we forget the material to begin with.
- LOVE IT!
- the sympodium is great for color cordination that helps me focus and being able to access the slides later on the computer are a big help.
- The sympodiun is a all round better tool for teaching. It's the updated chalkboard.
- i typically prefer the chalkboard method, however i do like the ability to access the slides beforehand
- i prefer the sympodium! more organized
- N/A (x2)
- Using chalkboard, lecturer will block my eyesight sometimes.
- The Sympodium did allow for the professor to record and post lecture notes and that was extremely helpful. However, it did make it so the professor went through some material too quickly

- It is just a great tool to have for not only clarity and distinction but also being able to refer back to them online if needed when studying.
- Sympodium makes me better understand concepts in classes
- The Sympodium allowed for clearer notes and less confusion than a chalkboard sometimes creates.
- The sympodium is better.
- I prefer the Sympodium to a chalkboard.

Do you have any additional comments about the pre-class notes?

Answers

- No (x14)
- I think the pre-class notes are a great thing for the majority of the class but for me, I find it easiest to pay attention by not taking any notes. Then I can review the slides afterwards online. My opinion may change once I get to harder math classes.
- very helpful since the lec went so fast
- I loved them. It is what I had in high school so it was an easier transition. And I wasn't wasting time writing down questions, etc.
- They are helpful
- they were very helpful.
- Very nice to have. Could concentrate on what she was saying instead of trying to write down what she said a minute ago
- I don't usually use pre-lecture notes, but I think that they would help for those who take notes.
- It makes it easier to take notes but its too difficult to print them out everyday. It would be nice if all the notes for the quarter to be up the first day that way I could just print them out and I'll always have them cause sometimes I forget to print them out and then there is no point in even trying to take notes.
- I really was not able to understand them with the lecturers notes being on them.
- Made it less about freaking out about "did I miss something?!" and more about paying attention and understanding.
- easy to understand concepts because i was listening to the instructor instead of worrying about writing down all the problems and extra formulas
- Helpful to have avialable
- very helpful, especially when trying to quickly draw graphs in class
- helpful should just be put up sooner
- N/A (x2)
- If I understood the material in pre-class notes, I would not listen to lecturer carefully, becasue I thoght I mastered that, but it turned out that I didn't understand.
- Definitely a big help instead of always trying to write the problem down and falling behind. It allowed me to stay on task and work the problem out much easier as the teacher did it.
- Pre-class notes are really helpful in that I am easily able to know what I am going to learn new concept today

- I really enjoyed having pre-class notes. I was able to briefly examine what would be covered and I didn't have to rush to write everything down before the slide was changed.
- They are real helpful.

Do you have any additional comments about the post-class notes?

Answers

- No (x14)
- I never missed a lecture, yet I never took a single note. The online post-class lecture notes are what I like best about this Technology Pilot, because of this I have done very well this quarter.
- Although the whole lecture video and notes are online, I still think go to lecture is necessary. Because the class'atmosphere is really helpful. Or if I have some questions I can ask professor directly.
- Helped me re-learn the areas that I wasn't able to fully grasp in lecture.
- Help a lot if you are sick or can't make a class
- they helped a lot
- it was a very good review asset
- Sometimes the video lagged a little, but its technology and it is very understandable
- very helpful for reviewing
- I really enjoy being able to pay more attention in class instead of scribbling down notes and then trying to decipher them and understand them later.
- Definitely keep the online lecture notes. They got me through the quarter and I only missed two lectures this quarter.
- They needed to be posted up sooner so that way students can review uncertainties in the lecture right after the lecture finished, before they forget their uncertainties and have to start over in trying to understand the material.
- Very helpful.
- great to have in case i missed a step or a class
- Helped study and review material. Completely worth it.
- Having the whole class and all the notes available when doing homework or studying was the best thing that could have happened. These notes allowed me to not take notes which is a great thing. When I take notes in math class i usually end up focusing on just copying down the information so I have it and I cant pay attention to the material being taught. Having these notes online allowed me to pay full attention to every concept and allowed me to go back and watch class again if I needed to.
- very helpful
- N/A (x2)
- Having complete note will give me a chance to clear the material which I didn't understand in class immediately.

- They are great!
- I really appreciated the set up of the notes with my own notes.
- Online lecture note was really helpful for me, an international student who is not familiar with English yet.
- The post-class notes were helpful. If I had any confusion with my own note I could easily access the online post-class notes to help me understand what was trying to be shown.
- I like the post class notes.
- They are an excellent addition to class. I think every class should have them.

Do you have any additional comments about the interactive figures (applets)?

Answers

- No (x15)
- Interactive figures are very helpful, they are used perfectly in lecture, not too much and not too little.
- I didn't use this feature.
- didn't use them. not very helpful
- Interactive figures didn't help me or hurt me at all.
- They tended to confuse me more
- helped a lot with understanding
- Helped reinforce the information during the lecture
- No I like it.
- I liked it when they were used to illustrate a difficult idea, but I didn't really ever go back and play with them myself.
- I never used the interactive figures on my own and when they were used in class half the time they didn't work. On the other hand, they were a nice break from straight lecture.
- There should be less conceptual interactive figures and more working out problems. Students learn better by seeing the concepts applied on problems instead of having to learn the concept and then also having to learn the ways in which to apply the concept on the problem.
- They were cool in class but I didnt experiment on my own time.
- i personally only followed a few of the interactive figures
- Helpful to see graphs displayed and moving.
- i personally did not benefit from them, but others may have
- helpful when they worked
- N/A (x2)
- Some were not as helpful, but they were great resources when needed.
- The online interactive figures makes me better understand and pay attention to the class
- They showed the concepts of the lecture in detail and I appreciated them substantially.

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Do you have any additional comments about the twitter warm-up questions?

Answers

- No (x15)
- I didn't use Twitter but I did respond to every question that we had via the browser on my cell phone. I think this concept is a great idea however my class normally only has about 3 people respond. The question is pointless and doesn't tell the instructor anything unless the majority of the class responds. I think that participation should be part of our grade or something else to get people involved with the clicker question.
- These were useless to me.
- They are helpful, as long as the professor explained them thoroughly.
- maybe give points for answering it?
- Not everyone has twitter so I never was able to answer
- I used the internet on my phone to answer the warm-up question. It was easier
- No thanks I think it is not relevant to our class content.
- I generally used my ipod or computer and went online to vote.
- It was too difficult to respond to the questions so I stopped. I didn't really like the twitter question and to be honest it rarely helped.
- I feel the twitter questions were less helpful than actually diving into the material.
- Eh, should have made us buy Clickers.
- maybe could be used for extra assignment or participation points
- I do not twitter, nor do I plan on having one so I never participated and most of the time the questions didn't seem that important!
- Although somewhat unnecessary, it is a very neat idea.
- i feel like this could have been a fun and cool concept, but no one participated so it kind of failed
- not useful and more of a hassle
- N/A (x2)
- Not really worth it
- I would have preferred a different primary source of communication
- The twitter system makes me involved in classes and it leads me to paying attention to the class
- They are helpful

- I did not use the twitter system, but rather wrote down the opening question and answered it myself.

Are there any other technologies that you believe the math department should incorporate into a technology enhanced course which are not included in the list above?

Answers

- No (x27)
- It would be nice if the Online Lecture Videos could be posted faster however I understand that it is not easily done.
- N/A (x3)
- Not that I can think of. Clickr questions were helpful though
- no there is already lots of helpful technology. More technology might just take the focus away from the actual math.
- maybe work the warm-up style questions into the lecture as well as just at the start of class.
- In recitation they should use smart boards. Like the ones that look like a dry erase board but you can write on it and its touch sensitive.
- Not that I can think of.
- No, the ones above are perfect.
- All that is needed is the above.
- Actual clickers instead of twitter. With that said, everything else was great. I really enjoyed and was thankful to have a technology enhanced lecture
- online worked out problems that are harder than the basic ones covered in lectures.
- free clicker devices for the quarter - some people didn't have the resources to participate in the clickers.

Do you have any additional comments?

Answers

- No (x20)
- This is a great thing and I think it should continue, I learn very well in this atmosphere.
- the TEL was so helpful, i feel i would have done much worse in calc without it
- I would recommend and take another technology enhanced math class in a heart beat.
- Technology helped a lot. I can't imagine using a chalkboard the whole quarter
- Really well taught course.
- This is almost as if it were an online course, it has its pluses and minuses but encourages skipping lecture because re-watching the lectures online is the exact same as going to class.
- If I had the option I would take another class like this
- I felt like I taught myself this class. Recitation was not very helpful and lecture a lot of days I left feeling like I didn't get much out of. I don't know what I would change but thats how felt about it.
- overall it was a good experience. My only reservation is towards the pre-class lecture slides. Looking at the slides ahead of class meant nothing for me. I was unable to understand them without having the problems worked out. Then when I went into class the pre-class notes caused the lecture to go fast and I was unable to catch up. It then took additional time for me to understand the lecture be having to re-watch the whole video. Where instead i could have grasped fewer basic concepts and started on the problem application. Also the recitations are reserved for working out the problems however of the two weekly 48 minute class periods 25 minutes were used on the quiz that's why to me it is more important to have practice problems in lecture as well.
- This was a great step in a positive direction.
- i very much appreciated the technology enhanced setting
- This quarter has been enjoyable in math 151, hopefully you keep the online piloting because it really was a help to me and many other students alike.
- Great quarter of math and I love the technology
- twitter thing was stupid
- I wish all of my previously taken math courses were like this one.
- It was a great tool using the technology enhanced lecture as a whole. Everything both in the lecture and recitation was easily referenced if needed due to being online as well as pre made notes where the student got to do the problem as the

teacher did it without having to copy it down and especially not having to draw pictures that would not be as precise as if hand drawing was necessary.

- n/a
- I love math.