

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

#### Answers

- The Sympodium allows for more interaction and is easily visible. More staff training is recommended
- No (x12)
- N/A (x3)
- The Sympodium was more useful when I had the lecture slides in front of me so I could copy exactly what the lecturer was writing. When I didn't have the slides I had trouble keeping up.
- The major benefit of the Sympodium is that it allows for larger images of what is being written. This makes it easier to see. A chalkboard is different because the handwriting cannot be amplified. This can make for a more difficult learning experience because if a lecturer has bad handwriting and it's small, the students will not take away as much from it.
- Having the lecture slides available previous to the class are helpful, but it also causing the class to move very quickly!
- much easier to see!
- I also like the ability of the slides to be posted online with the lecture notes added to them.
- the faster computer is nice
- It made erasing mistakes a lot easier than seeing a partial erase on a chalkboard and wondering if it was an erase or an accidental smear
- The best advantage is being able to look at notes that the professor has made when he sped through the content.
- make sure the lecturer knows how to use it
- MUCH easier to see... the colors are awesome and REALLY help when looking back over that material in my own time
- Being able to obtain the slides outside of class is very helpful. This is not possible with notes written on a chalkboard.
- none, the sympodium is fine
- I liked it a lot more. One, I hate the sound of chalk and I liked how the different colors could be used to differentiate between different parts of the problems
- very helpful to see the slides before class, and the screen is so large that everyone can see sometimes it can be hard to keep up when the problem is already written out for the lecturer to work on and we still need to copy it down

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

Answers

- Very useful
- No (x11)
- If I used the pre-class notes, i was less likely to actually pay attention and take my own notes in class.
- N/A (x5)
- Pre-class notes were very beneficial
- Unfortunately, I never used the pre-class lecture notes because it usually used too much paper. I was also nervous that I wouldn't have a secondary "hard copy" if I were to lose the lecture notes from class.
- prepared me for class!
- I've never heard of pre-class notes?
- i did not know we had these
- I didn't look at them much, but I didn't realize they were available to look at before hand till about half way through the class.
- I have a tablet and all I have to do is download the notes and write on it just like the professor does and is indeed helpful to condense my notes.
- Helpful to know what was on the agenda in case I had to miss class
- The pre-class notes gave me an idea of what the lecture was going to cover, and i believe this helped me better understand the lecture.
- I never used them.
- Never used them because I didn't know that they were available.
- I didn't feel as though printing them out before hand would help.
- they were very useful to have.

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

Answers

- VERY Useful for exams. Love it!
- No (x11)
- The videos and notes online are EXTREMELY helpful and should be available to all math classes.
- The post-class notes were very helpful for when I couldn't make it to class, but it offers no incentive to actually go to class.
- N/A (x4)
- The online lecture notes didn't always help increase my understanding of what was being covered but they acted as a great reference. I would usually use the online notes as a supplement to the notes that I took during class.
- The main reason that I liked having the notes online was due to the fact that I sometimes had to miss class. Knowing that I could get the notes made me feel more at ease.
- helpful when studying
- I wish more of the videos had turned out
- Some times the hand writing was hard to decipher
- Sometimes the pages he adds on is too small to read and becomes blurry when zooming in.
- very helpful
- # 6 is sooo true. In other lectures... sometimes an important piece of information will be accidentally left out of my notes.... so this helps keep me on track
- Having the lecture notes online at any time is very helpful. I find it much easier to reference the online notes than to search through my personal notes, when doing WebWork/homework.
- I never used them.
- These were great. I loved having them available to study for the exam
- It was really helpful to have the lectures online after because multiple times I was working on webwork and couldn't completely understand my notes, so I listened and watched the lecture online and was able to understand it much better.
- they were very useful to have, especially when being used before recitation quizzes. post-class notes should certainly be kept.

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

Answers

- They really help to understand the concepts
- No (x13)
- N/A (x3)
- The interactive figures seemed to be more of a distraction to my Lecturer who would usually try to get them to work, but to no avail. When they did work, he would comment on how cool it was. Aside from that they did not increase my understanding of the concepts whatsoever.
- Interactive figures were not useful for me. My professor often did not know how to use them so in turn confused me.
- neat to have
- our lecturer always then messed with them for a few minutes sometimes slowing down the lecture
- A lot of the interactive figures either wouldn't open or no one could get the to work right, including the teacher sometimes.
- Sometimes the professor couldn't get it to work right and spent some valuable time trying to figure it out. Make it easy to use o show students quickly.
- waste of time
- It helped me visualize the concepts better
- Some of the interactive figures did nothing for me, but on the other hand some of them really helped.
- I did not use these except for when the lecturer showed them in class.
- I didn't use them much but when Professor Leary would try and use them in class, he was so confused it made them worthless and time consuming.
- they distracted from the actual material being presented.

*Do you have any additional comments about the online lecture videos?*

Answers

- Also VERY useful for exams
- No (x12)
- Lecture videos were also helpful, but like post-class notes, offered no incentive to actually go to class.
- N/A (x3)
- Unfortunately, even with the lecture video I still did poorly in this class. The lecture videos were somewhat helpful but were not a great help.
- The videos were awesome to have for studying! I always seem to miss something in lecture and it was very nice to be able to go back and listen.
- I \*loved\* the lecture videos - I thought they were incredibly helpful. If I didn't catch something, it was great to be able to go back and watch the video.
- The only real problem we had with the lecture video is it was hit or miss if we could get it posted online, until they switched out the teacher's computer he was using.
- Very helpful because you have a visual and auditory post notes.
- loved the videos
- I absolutely LOVED the online lecture videos. They were such a huge help. I unfortunately am retaking this class this quarter (I didn't do well last year)... and take it from someone who has taken Math 151 in both formats.... THIS IS SO MUCH BETTER. It was sooooo helpful to have the exact lecture on my computer. Having access to the other class's lecture was nice too because teachers have different ways of explaining so sometimes in order to grasp a subject, one would explain more clearly than the other.
- The online lecture videos are a beautiful thing. I am able to watch them as many times as needed, they help remind me of how to do things.
- I never used them.
- They need to all be put online. Some of the lectures that I needed because I was sick were not available online and so I had a harder time catching up with the materials.
- I didn't find the online lecture videos useful.
- The online videos were amazing because I could look up parts that I didn't understand. Also, if it was a long problem being worked out during lecture, I could just pay attention and then look at the notes after as oppose to trying to take notes and not paying attention.
- they were useful when missing lecture was unavoidable.

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

#### Answers

- First off, I don't have a Twitter account. If you linked it to the moodle pages, that would be better
- i thought that these were pointless and a waste of time in lectures
- I didn't actually use twitter, I used the clicker on OSU's math website. I didn't feel it was worth making a twitter account for the questions. I think more people would respond if we were able to answer directly through text message.
- N/A (x2)
- The warm-up question is a good idea, but I didn't have Twitter set up on my phone. If there was another way to respond, say via regular text messaging, I would have been more likely to respond. Also if the professors could send an email to the students saying when the question was available, I would have responded more.
- I rarely used the Twitter warm up question because it was usually a waste of time. I would always get the answer wrong and the lecturer seldom went over how to get the right answer, so it seemed pointless.
- If the twitter warm up questions were to be kept I would suggest making it easier to access such as through text or facebook, because not everyone has twitter accounts.
- I don't have twitter, I find twitter complicated.
- No (x7)
- get rid of them or give us bonus points for answering them
- i did not get the point of the warm up questions... no one ever did them
- I don't feel the twitter questions helped at all. Some times they left me feeling more confused.
- No one really answered it because some may have thought it useless.
- I thought they didn't serve much of a purpose since many never responded and they took away from lecture time.
- the questions almost never related to the material i didn't worry about the questions because we would never see anything like them on tests/quizzes/exams
- I feel like not many people did the Twitter questions... so it wasn't too helpful. I believe you would have a better response if there was either A) an incentive or B) an easier way to submit a response ((for example just texting your answer to a number.. instead of needing to have a Twitter account))
- The twitter questions were not easy to access and did nothing to help me learn.
- Phone service was not available in the lecture room, so i could not vote using twitter.

- it seemed to serve no purpose
- I don't use twitter and I personally thought the questions were not helpful
- It was more based on the concepts rather than using those concepts, which I found it did not suit my learning preferences.
- No one used the clicker questions, and then ended up just wasting time in class.
- I didn't use them.

*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

- Staff training
- No (x15)
- N/A (x3)
- None that I can think of.
- No I believe they did a great job at trying to make it easier for us students to understand by giving us examples and making more resources available to us.
- Not that I can think of.
- Listening to the lecturer can get pretty confusing, and considering its such a big class, you can't always ask your questions. It would be nice if there was some way to just send questions to the lecturer while he was giving the lecture so he knows what were confused about.
- I think everything is fine.
- It's a very technical class and I believe it has everything it needs for a good learning environment.
- online chat with TAs for help
- The only "complaint" is that sometimes there were videos lost. But I understand that it was a pilot and that of course there are kinks to be worked out.
- Perhaps a way to see the lecturer, some things the lecturer does can't be seen on the computer screen.



*Do you have any additional comments?*

Answers

- More ways to get your graphing calculator involved!
- No (x16)
- N/A (x
- After taking this math course, I am convinced that I will be miserable in every future math class that I take. The classes and material moved by far too quickly leaving no time whatsoever to actually learn the material. I have gone to both my lecturers and TA's office hours repeatedly and have also seen 3 separate tutors for Calculus. All of my efforts to learn the material have failed. I feel that the Math Department really needs to step back and change the way that Math is taught. The current system seems to want you to memorize the material and then throw it up two weeks later during the midterms. I cannot learn that way. Also, midterms need to be spread out more because, as I stated earlier, there is not much time given to fully understand the concepts that are being taught. I truly hope that somebody in the Math department reads this and takes it to heart, because I would say that this was by far the worst learning experience of my life.
- NA
- I wish I had this for all of my classes!
- the class should be longer
- Include more basic examples to help new students understand the concept before getting to the difficult examples. Don't do the clicker question it was just a waste of 5 mins. Overall the class felt geared towards people who had calculus experience already
- I know it was our teachers first time using this TEL stuff so i can't blame him, but I would train the teachers how to better use the programing. He got it down pretty good though by the end. It also didn't help the computer he was using was messed up at first.
- N/A
- n/a
- Overall, I thought this program was amazing. It was so visual and so helpful. Even the little things made a HUGE difference... (some of my favorite things were the different color pen choices... Magic pen... iPod compatible videos)... It is really awesome because Dr. Miller is an expert with this system... so she was able to correctly use a lot of the really cool features... which actually really helped with my understanding and interpretation! I encourage you to incorporate this system with all classes!!
- I have no additional comments.