

**Title of Session:** Preservice Teachers

**Moderator:** Jan Naher-Snowden and Marianne Handler

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Room: On Tap Café

**MarianneH:** Welcome and I think you will be learning a lot here. I will guess that your teacher asked you to come to a group. Am I right, Erica, Jennifer and Melanie?

**JenniferKe:** yes

**MelanieMM:** yes

**EricaM:** yes

**MarianneH:** All of us like to hear how preservice candidates are using technology so why don't one of you start us out tonight?

**Jan\_NS:** We usually start with introductions. I am Jan Naher-Snowden, part-time faculty at Univ. of Akron, (OH), teaching technology integration and science methods. Han

**Jan\_NS:** Hang on Marianne.

**Jan\_NS:** please?!

**MarianneH:** sure

**MarianneH:** forgot, sorry, Jan. go to it

**Jan\_NS:** I'm done, Next?....

**KyteriaR:** my name is Katrina, I am a preservice teacher at the university of Houston

**MelanieMM:** Melanie Miller, University of Houston, Math 4-8

**EricaM:** I am a pre service teacher at the University of Houston

**MichelleZ:** My name is Michelle, I'm a preservice teacher from Univ. of Houston.

**CherylDW:** I am a Speech-Language Pathologist working with second and third graders.

**JenniferKe:** Hi, my name is Jennifer, I am a pre-service teacher at University of Houston

**Jan\_NS:** Just curious, are all of you in the same class at the same time?

**FranciscaE:** I am a pre-service teacher in Houston, Texas currently working at an elementary with first grade bilingual students

**MichelleZ:** our computer class is over the internet.

**KyteriaR:** no we are all over the place

**Jan\_NS:** ah, got it!

**MelanieMM:** same course I think, but it's an online kind of thing

**EricaM:** yes

**MarianneH:** And who has Dr. Pierson for a teacher?

**Jan\_NS:** Interesting.

**KyteriaR:** I had her last semester for cuin 3112

**JenniferKe:** I have Dr Pierson earlier in my schooling, right now I have Ms. Thompson

**MelanieMM:** same here

**MichelleZ:** I think Thompson is doing the PUMA classes.

**FranciscaE:** same here

**KyteriaR:** I have her now for cuin 3113

**KyteriaR:** I guess a lot of us are PUMAS...how neat

**MarianneH:** Krista, you tell her Dr. Handler says hi and that will really surprise her!!

**MarianneH:** I am Marianne Handler from National-Louis University and I teach teachers about technology use in schools.

**MarianneH:** Jan, Do you know what PUMAS is? We just might have to ask, eh?

**Jan\_NS:** No, not me!

**MelanieMM:** it's an acronym, sorry I can't spell it

**KyteriaR:** Puma means pedagogy for urban multicultural action

**JenniferKe:** UH has a semester before student teaching for students get out in the classrooms and observe

**MelanieMM:** it's our professional development courses

**MelanieMM:** yeah, what Kyteria said

**Jan\_NS:** giggles.

**MarianneH:** Like clinical field experiences before student teaching but in combination with methods courses?

**MichelleZ:** yes

**EricaM:** yes

**JenniferKe:** exactly

**MarianneH:** So where does the technology fit in?

**FranciscaE** joined the room.

**MichelleZ:** The title is pedagogy for Urban Multicultural Action

**MelanieMM:** it's one of our courses

**MichelleZ:** Technology is one of the methods courses.

**JenniferKe:** we have a one hour course for 3 semesters

**Jan\_NS:** Is there a webpage that details PUMA?

**MichelleZ:** Yes.

**KyteriaR:** yes, in each technology class at uh, we do a lot

**SuzanneC:** Yes we do A LOT of technology.

**MelanieMM:** a lot!

**Jan\_NS:** What do you cover in those techn. classes? Specifically - i.e. software, integration strategies, etc.

**AlitaF** joined the room.

**Jan\_NS:** Hi, Alita

**MichelleZ:** We cover implementing technology in the classrooms, as well as software and equipment.

**Jan\_NS:** Or is there a syllabus that someone could send me.

**JenniferKe:** integrating technology into all curriculum, how to use different applications such as front page, powerpoint, word, excel

**MelanieMM:** go to [www.coe.uh.edu/courses/cuin3113](http://www.coe.uh.edu/courses/cuin3113)

**MichelleZ:** [www.coe.uh.edu/puma](http://www.coe.uh.edu/puma)

**SuzanneC:** I have compared it with the other education programs and we do more than they do

**KyteriaR:** everything, microsoft word, excel, powerpoint, frontpage, creating technology lessons, and games using powerpoint, inspiration and much much more

**Jan\_NS:** Webquests? Web-Inquiry projects? Primary source documents available on the web.

**MelanieMM:** well the cuin is our course in particular

**JenniferKe:** we did webquests in our second semester

**MelanieMM:** EVERYTHING

**Jan\_NS:** Thanks everyone. I will check it all out.

**Jan\_NS:** Sure sounds like it!

**Jan\_NS:** Now the big questions - what do you see the school teachers doing with technology in the schools were you are doing clinicals or field experiences.

**JenniferKe:** not a lot

**MichelleZ:** not much, they however do stream videos into the classroom.

**SuzanneC:** We are currently in schools now

**MelanieMM:** I haven't really seen too much to be honest

**MarianneH:** Does Dr. McNeil teach the tech course?

**FranciscaE:** technology is not use much in the classroom I am

**MichelleZ:** The students also have technology classes once or twice a week. It's considered a specials class.

**CherylDW:** It is used by many teachers in my school

**SuzanneC:** I have been lucky because my school has recently competed in a district wide technology fair

**MarianneH:** Suzanne, do you mean the school where you are observing and working?

**Jan\_NS:** What happened in the technology fair?

**ElaineR** joined the room.

**SuzanneC:** But I know that's not the norm

**KyteriaR:** I see teachers using powerpoint, using the internet to support lessons. I am in a school district that is technology rich. The students have access to wireless laptops and alpha smarts

**MarianneH:** Were there student projects in the fair?

**ElaineR:** is this the presevice teachers room?

**Jan\_NS:** Yes, Elaine.

**MarianneH:** yes, Elaine, welcome

**ElaineR:** thank goodness. I have been so lost. I apologize for being tardy

**SuzanneC:** It was pretty awesome because the early elementary grades were using Power Point and such like pros

**CherylDW:** We have an excellent technology department that offers inservices to teachers

**MarianneH:** Kris, do UH students have to have laptops?

**FranciscaE:** no

**SuzanneC:** And this is a lower income school district

**KyteriaR:** Suzanne what district are you in

**JenniferKe:** that's awesome Suzanne

**SuzanneC:** Galena Park ISD

**MarianneH:** It is great that you see so much in schools. Do your UH teachers use technology in your courses other then your computer classes?

**SuzanneC:** I know because the norm is AR tests, right?

**MichelleZ:** Yes.

**Jan\_NS:** Interesting - sometimes the more needy school districts have the best technology and the highest level of professional development for its teachers.

**JenniferKe:** no

**ElaineR:** I am a UH student and we have to integrate technology into almost all of our courses

**SuzanneC:** I have been impressed by what they can do

**SusanR** joined the room.

**MichelleZ:** They have a smart cart that they can check out. We were also required to incorporate technology in all of our course work.

**KyteriaR:** that's certainly true the school I am at is a lower income school. They have SO much technology.

**ElaineR:** sometimes it is difficult because we enter a classroom that may or may not have used technology in the past

**MarianneH:** You guys are going to come out and really be ready to make a difference. Sounds like you are in the right place to make things happen.

**Jan\_NS:** But what about the professors in your courses at the university? Are they integrating technology into the courses in a meaningful way?

**SuzanneC:** But we saw one school that had this huge network satellite hook up and they couldn't use it

**MelanieMM:** most

**MichelleZ:** Quite a few of mine were.

**CherylDW:** All of the teachers in my school have at least 3 computers

**JenniferKe:** I do not see much technology used by professors

**SuzanneC:** No, not really

**FranciscaE:** I only have seen power point presentations

**MichelleZ:** We had online discussions in our classes, slideshows to help with comprehension and videos.

**Jan\_NS:** humm!

**MarianneH:** Do your UH teachers assign you to integrate into your lessons or do they model for you by using it in some ways themselves -- like putting syllabi on the web,

**ElaineR:** Yes Jennifer, I do not see my professors using technology to teach me in the way that they are asking me to use it in teaching my students

**MarianneH:** or creating URL resource lists for you.

**Jan\_NS:** Thank you Elaine, that is what I was wondering.

**ElaineR:** they just tell us to use it in our lessons. I had not thought about their lack of modeling

**KyteriaR:** I have not seen my professors using it either. Nothing but videos

**JenniferKe:** We are usually required to integrate technology into most lessons

**JenniferKe:** Some professors have syllabi on their websites

**MelanieMM:** I'm with Jenn

**MichelleZ:** I guess I have been lucky. I have received resource lists, great websites for classroom lessons and ideas, as well as the classrooms online.

**MarianneH:** no online resources? no word processed rubrics??? think about how they are using it for you? Can you come up some things.

**KyteriaR:** yes they all have that

**Jan\_NS:** That has been my sense of it. The expectation for you is there but the profs seem to be reluctant to take the same steps.

**KyteriaR:** yes that's true

**JenniferKe:** I see what you mean Marianne

**JenniferKe:** we do get syllabi on Word

**MichelleZ:** Several of the classes we have taken have been offered over the Internet.

**ElaineR:** I agree Jan, in some respects. However, I am glad that we do not have to do much more online, it is overwhelming as it is. I do think that our teachers could be much better models though

**MarianneH:** hmmm... but they use the tools and plan for ways to make it meaningful for you to use it, right?

**SuzanneC:** Yes, that's true!

**SuzanneC:** Oh, I was agreeing with Jenn

**SuzanneC:** I think some are too set in their ways

**MelanieMM:** old habits are hard to break

**KyteriaR:** also our teachers make us go to this website called e classrooms to do classwork

**MelanieMM:** it's about transition

**MarianneH:** Remember you are natives (you didn't do all this without technology) and they are immigrants (have to learn to do this a new way) AND that is NOT an original idea I heard it elsewhere.

**SuzanneC:** I've heard that also

**MarianneH:** Good, Melanie.. great way to say it.

**KyteriaR:** yes technology is new for a lot of teachers

**Jan\_NS:** Perhaps thinking about the differences between personal productivity use of technology and the use of technology to enhance the concepts being covered could be a good way to describe our use.

**ElaineR:** However, I have had several professors give me wonderful suggestions as to how I could implement technology in my lessons. It seems to be a HUGE priority across the board

**MelanieMM:** agreed

**SuzanneC:** But, I'm a nontraditional student so if I can anyone can!

**JenniferKe:** good point Jan

**Jan\_NS:** Yes, that is true, Elaine. NCLB has a priority for integrating technology into the schools, as does NCATE for colleges of education.

**KyteriaR:** yes integrating technology into lessons is good. However we want to fit it into the lesson if and only if it could be used effectively. Not all lessons have to have technology.

**MarianneH:** Suzanne... that covers a wide range... Can you give us an idea of what you mean by nontraditional?

**SuzanneC:** I'm an "older" student

**ElaineR:** I think my biggest concern is that as new teachers we are being taught to implement all of this technology, but we end up working with students who have little or no knowledge because they come from classrooms that did not give it much focus

**JenniferKe:** Kyteria I agree with that

**MarianneH:** Right, Kris..

**MarianneH:** thanks... I learned technology as you did.

**Jan\_NS:** Very true - a hard reality.

**MelanieMM:** with you Elaine

**JenniferKe:** I have seen that also Elaine

**FranciscaE:** true, Elaine

**ElaineR:** So we have to start from scratch in whatever grade level we teach.

**SuzanneC:** True

**EricaM:** I agree

**MarianneH:** Do many of the schools you go to allow students to create projects and put them on the web?

**FranciscaE:** I notice it today, a first grade students was have a hard time typing her name

**MichelleZ:** Not that I have seen.

**ElaineR:** Some children work with computers at home, and some do not. Some have had teachers that taught them technology skills and some do not. It is extremely hard to work on a level playing field

**MelanieMM:** haven't seen any

**JenniferKe:** Students create projects but they are only in the hallways

**KyteriaR:** I do not know if my school does that

**SuzanneC:** I agree Elaine

**ElaineR:** It is no like other curriculum areas that are taught consistently across the grades.

**FranciscaE:** yes, students only create projects and are on the hallways

**MarianneH:** There isn't a level playing field in a lot of areas... it shows very quickly with technology tools... That's what they mean by "meeting the needs of all students"

**KyteriaR:** I only saw students work on fancy bulletin boards in the hall ways

**AlitaF:** I do not know if my school does that but they are required to take a computer class

**SuzanneC:** I'm not sure if our kids publish their work

**MarianneH:** Do you all have electronic portfolios?

**ElaineR:** All of our teacher's web sites are created by the school technology person and there is no student product displayed on them

**MichelleZ:** Yes

**JenniferKe:** yes

**MelanieMM:** I'm sure the opportunity is there, but few take advantage of it

**KyteriaR:** yes I have an electronic portfolio

**Jan\_NS:** Elaine, is that because of parental permission issues?

**ElaineR:** All of our teachers have websites, but none of them know how to make them themselves

**ElaineR:** No, it is because one person is in charge of the whole school.

**SuzanneC:** Yes, I have an electronic portfolio

**MelanieMM:** that puts them in the same category of the students, square one

**Jan\_NS:** Interesting.

**ElaineR:** I think that the parents as well as the teachers would like to see student products displayed, but the question remains, who publishes them?

**JenniferKe:** Most of the teachers I talk to say they don't have time for technology

**MarianneH:** Interesting comparison, Melanie

**ElaineR:** Exactly

**MarianneH:** Ah but is that a reason or an avoidance technique?

**JenniferKe:** exactly

**Jan\_NS:** So teachers are not given the opportunity to create and maintain their own webpages?

**FranciscaE:** some teachers say it will take time of the instruction

**MelanieMM:** some just can't do it anyways

**KyteriaR:** yes teachers in my district are so focused on getting language arts, guided reading and math done, until they don't have time for technology

**ElaineR:** So that leads me to this question. If teachers are not interested and enthusiastic about learning to use technology, how can they possibly expect their students to be?

**MarianneH:** Jan, do you think cooperating teachers have any idea how they are viewed by these candidates?

**SuzanneC:** they see it as a "fluff" subject that doesn't need to be covered

**MarianneH:** in terms of technology?

**JenniferKe:** I have been told I will never have time to do these projects once I start teaching

**KyteriaR:** yes that's true. If you are not excited about technology, you can't expect your students to be either.

**Jan\_NS:** Probably not.

**ElaineR:** I am not sure if they are not given the opportunity, but I think they are not urged to take the opportunity.

**MelanieMM:** I think I understand the plight of the teacher, though

**MarianneH:** Don't let them convince you of that Jennifer. Have you ever read or heard the term 'change agent' in your studies?

**JenniferKe:** no

**MarianneH:** Well, we can have a whole discussion on that one...

**KyteriaR:** yes, they told us that all the things we are learning in school, we probably will never be able to do once we start teaching

**ElaineR:** I have already started my teacher site and I think that it will be an excellent source of communication, display, and interaction with my students

**MarianneH:** but it means someone who does things that causes other changes as well.

**Jan\_NS:** Good for you, Elaine.

**MarianneH:** right on!

**JenniferKe:** I see, well I want to hold on to what I have learned and realize not everything will be able to be done

**MelanieMM:** true

**JenniferKe:** But I am going to try to incorporate everything I can

**KyteriaR:** yes, I think that all it takes is one person to make a difference and change the schools view of technology,

**Jan\_NS:** Perhaps, working gradually to incorporate the technology.

**MarianneH:** There are places on the web that allow teachers to create web sites very easily and put them up for them... it is a good place to start and as you learn about them you can show them to teachers in the schools

**ElaineR:** I like your look at reality Jennifer. We are not super heroes, but if we are motivated and interested, we will certainly give it our best effort

**MelanieMM:** here, here

**FranciscaE:** I agree with you Elaine

**JenniferKe:** thank you Elaine

**Jan\_NS:** The whole thing of integrating technology into the curriculum in a meaningful is just one tip of the educational reform iceberg

**ElaineR:** Technology seems to change hourly and it will be a lifelong effort to keep up on the latest and greatest skills

**Jan\_NS:** meaningful way, i.e.

**KyteriaR:** true

**MarianneH:** Is there anything special you guys would like us to discuss with you that you have questions about with technology integration?

**SuzanneC:** Yes, true

**MarianneH:** Elaine... that is what makes it wonderful!!

**ElaineR:** How can we go about being properly trained on Mac's?

**JenniferKe:** great question!

**MarianneH:** Come to my house... just kidding

**MelanieMM:** haven't used a Mac in years

**ElaineR:** My school is primarily Mac's and I have never received any training on them

**JenniferKe:** same here

**KyteriaR:** me either

**MarianneH:** Elaine, there must be an Apple Store in Houston you can visit.

**Jan\_NS:** We require our students to use Macs for their tech classes.

**ElaineR:** I can do just about anything on my laptop or PC, but I can't integrate technology that I don't even know how to manipulate

**Jan\_NS:** I hear lots of moaning and groaning.

**ElaineR:** does the Apple store provide training?

**MichelleZ:** I think U of H had one Mac and that was for creating your account with the technology department.

**SuzanneC:** We have some Mac's at U of H that we played with but nothing serious

**JenniferKe:** that has been nice because the students have shown me how to use a mac time to time

**MarianneH:** We do too because we want them to be prepared for both platforms and the mac works so well with digital tools because of the iLife.

**Jan\_NS:** The leap is not that far, everyone.

**MelanieMM:** old dog=new tricks

**SuzanneC:** right!

**MarianneH:** If you have them at the college go to <http://atomiclearning.com> and you will see there are free tutorials that are short, quicktime movies and you go right along with them

**MichelleZ:** The biggest problem I have with Mac is when I go to minimize a window I end up closing it.

**MarianneH:** You will really have a good time.

**ElaineR:** I know there is not that big of a difference, but as a teacher, I have to be not only knowledgeable, but comfortable also

**JenniferKe:** they remind me of cars here and in England, operations are kinda opposite

**MarianneH:** I find the mac more user-friendly once you start.

**Jan\_NS:** Very true. Using both on a regular basis makes you more comfortable.

**MichelleZ:** That's so true Jennifer.



**MarianneH:** Well, Jennifer, can you think of any other place where you have to click on START so you can quit? <grin>

**MelanieMM:** practice makes perfect, so they say

**Jan\_NS:** But the basics are similar - things are just in different places.

**MarianneH:** When we are through go to [atomiclearning.com](http://atomiclearning.com) and you will like what you can see. they take each step in a very bite size piece you can understand. We have it for all our education students.

**ElaineR:** Also, when you are working with children at such varied abilities and interests in technology, where do you begin instruction? How can you facilitate effective instruction that does not leave one child behind and bore another?

**JenniferKe:** thank you for the resource

**Jan\_NS:** That is where the other aspects of educational reform comes in, Elaine.

**MarianneH:** Oh,

**ElaineR:** I considered having student tutors along with group projects, but how do you get that going when you are so limited with time and resources

**MarianneH:** Elaine, you do ask the right and hard question.

**KyteriaR:** yes peer tutors can be a problem when the projects the students are doing is time consuming to begin with

**MarianneH:** Have you ever heard of/used the jigsaw method of grouping?

**ElaineR:** I have watched the media ancillary at my school, and I see children doing work on projects, but in all reality, they are lost.

**Jan\_NS:** Project based learning, cooperative groups, authentic assessment. primary source documents

**KyteriaR:** yes the jigsaw method of grouping is a good idea.

**ElaineR:** They are told to do assignments, but they don't have any genuine understanding of the way things work. They seem to just be fiddling around.

**Jan\_NS:** but if these students had these experiences beginning at a very young age, then the whole process would be "the way it is" and getting lost would not be the issue.

**MarianneH:** Then each group learns a specific skill and goes back to their own group and becomes the mentor for that particular tool or whatever.

**ElaineR:** I tell you what, there is nothing about fiddling around in the 3rd grade TEKS. They are explosive!

**Jan\_NS:** TEKS?

**MarianneH:** Didn't they just change the TEKS and give them a new name? or is that the new name?

**KyteriaR:** yes if the students are able to learn that way then it could work well.

**MichelleZ:** Texas Essential Knowledge and Skills

**ElaineR:** Yes Jan, and that brings me back to the frustration I feel when I work with children that come from a classroom that did not value technology.

**SuzanneC:** No, that's the TAKS that they changed

**MarianneH:** Those are the Texas standards and indicators.

**FranciscaE:** TEKS are the state objective

**MichelleZ:** The TAKS is the testing... or assessment of the state objectives.

**MarianneH:** What is the difference, please? I thought I had it down.

**Jan\_NS:** thank you

**MarianneH:** OH

**MichelleZ:** I think it used to be TAAS testing.

**ElaineR:** I think something has to be done at a School level that will ensure that technology is being taught throughout the grades

**MarianneH:** Taught or implemented as needed... That is what the NETS-s was supposed to do....

**Jan\_NS:** I agree, Elaine. And now we are right back to all of us being "change agents"

**MichelleZ:** In the implementation of the lessons we have created we haven't had a problem with the students not knowing how to use the computers, rather, with our disks not working in the computers.

**ElaineR:** Technology is not tested, and therefore, not monitored. Teachers have to be accountable

**MarianneH:** the provide a framework of competencies for different grade levels and expectations

**MichelleZ:** Or not having enough computers for the classroom on short notice.

**MarianneH:** Unless states adopt state technology competencies for students and teachers. Illinois is doing that

**Jan\_NS:** As is OHIO

**KyteriaR:** technology is in the TEKS

**SuzanneC:** There is an new certification being created in order to teach technology

**ElaineR:** Lastly, I feel fearful that students that I encourage to get involved with technology may end up in a class next year that does not nurture that foundation.

**JenniferKe:** oh really Suzanne?

**SuzanneC:** Well, a new test!

**MarianneH:** Illinois just started the Technology Specialist K12 certificate and we were just approved to offer it this week!!

**JenniferKe:** I totally agree Elaine

**JenniferKe:** although isn't that true with any curriculum area, next year the students teacher might not like to allow students to have independent reading time

**MarianneH:** But Elaine, they and their parents will put pressure on the school to make sure they DO get it... that is part of being in the change agent cycle.

**ElaineR:** As a preservice teacher, I think that it really is more than just me teaching with technology. I think that it is about making technology curriculum a monitored school wide component that is consistent across the grades

**KyteriaR:** yes I agree

**MarianneH:** Elaine May I say it just a bit differently.. A technology curriculum focuses on TECHNOLOGY.

**ElaineR:** well, Jennifer, it is true in a way. But, usually, schools do more across the board reading programs like guided reading and such

**MarianneH:** How about having Curriculum driven technology use Not having technology drive the curriculum?

**MarianneH:** It is when the technology drives that teachers balk... they see no value in the learning process and they are right... It has to extend, expand or enhance learning.

**Jan\_NS:** Use the technology ONLY when it makes the curriculum better and makes the learning more meaningful.

**MarianneH:** Right On!!!

**SuzanneC:** That is so true

**JenniferKe:** that would definitely make it more meaningful

**KyteriaR:** yes I agree! technology does not need to be this separate isolated thing that we teach every once in a while. Instead, we need to INTEGRATE technology and use it as lesson supports.

**SuzanneC:** That is what one of our instructors stressed to us

**Jan\_NS:** Then it is not another thing to accomplish, but something that assists in meeting the objectives and standards.

**ElaineR:** Marianne, thank you for rewording it for me. I do agree that technology is only an addition to well planned and effectively implemented curriculum. However, some technology as content has to be taught in order to use it to assist other curriculum

**MarianneH:** Who, Suzanne, I am curious cause I have several friends there.

**ElaineR:** Also, here in Texas, there are very detailed technology standards in the TEKS that discuss technology as a content areas of its own

**MarianneH:** some yes, but in other cases, Just In Time is best

**Jan\_NS:** True, Elaine, but we all learn to use the dictionary in context, the technology can be the same way.

**SuzanneC:** Dr. Pierson

**MarianneH:** yep, no surprise.

**KyteriaR:** yes technology does have specific content, but once students master the basics, everything else kinda falls into place. Children learn things fast.

**ElaineR:** I absolutely agree with that Kyteria

**SuzanneC:** She always said only use technology when it was needed, not just to use technology

**MarianneH:** And the changes in technology help us remember about life-long learning. You can't learn technology and say... Well, Now I know it.

**ElaineR:** I know for me, the greatest hurdle has been simply getting my students excited about using technology and not fearing it. Once they feel safe in experimenting, they do

**JenniferKe:** learning with your students is important

**MarianneH:** Just like the rest of us, Elaine.

**ElaineR:** Yes, just like us

**KyteriaR:** that's true. nobody in this world knows everything there is to know about technology because technology is constantly changing.

**ElaineR:** Oftentimes, our students teach us!

**Jan\_NS:** Rather like being alive and maturing through our life cycle, technology learning is like being alive. We have to keep learning because we must.

**MarianneH:** That is the best part of every class I teach... that I can be a learner too.

**MarianneH:** Not a bad ending to our time and I have a favor I ask of the UH folks (Sorry, Jan, I can't resist)

**MichelleZ:** I Think the biggest challenge, that the teachers I have observed, as well as, the puma students have encountered has been the lack of computers for the students to use. They have two computer labs, one set of laptops, and only three classroom computers.

**SuzanneC:** Yes, funding is a problem

**ElaineR:** All in all, I am very excited about using technology in my classroom. As preservice teachers we just have to work out the kinks, stay focused on what we know,

and encourage our peers to be enthusiastic also. We can be the greatest source of motivation for aged teachers

**MarianneH:** True, Michelle, I think all faculty at all colleges would agree with your.

**MarianneH:** UH Folks, if you see Melissa P or Sara M or Bernard R will you please tell them Marianne says hi and that I said they have great technology using students.

**SuzanneC:** Yes, we'll be glad to

**MichelleZ:** lol, We will. Thanks for the wonderful discussion.

**Jan\_NS:** This has been a great discussion, everyone!

**JenniferKe:** absolutely

**SuzanneC:** Thank you!

**JenniferKe:** thank you

**Jan\_NS:** Thank you for being here to participate.

**ElaineR:** Also, remembering that teaching with technology does not limit us to sitting at computers. Technology is everywhere and more vast than we give it credit for

**FranciscaE:** thank you

**ElaineR:** Yes, it was great. Sorry I was late

**KyteriaR:** yes

**MarianneH:** Come back again, please. We learn from you as well.

**MichelleZ:** Bye everyone.

**Jan\_NS:** Join us next month!