

Faculty Luncheon: Taking a Scientific Approach to Science and Math Education

What is one thing you learned today that you will be able to implement?

| Text Response |
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| Requiring students to commit to an answer for a question that is asked in class promotes better understanding/learning. |
| Using more technology in classroom to facilitate active learning |
| incorporate more conceptual questions into class discussions |
| Importance of student discussion. |
| Designed teaching |
| The different techniques to engage student in active learning. |
| I liked what he said early on about organizing framework. I also liked how he said lead with a question, and then discuss and teach. |
| increased student engagement |
| I will continue to work to increase the active student engagement in my large lecture class, using ideas as described in the presentation. |
| Active learning |
| nothing new since as instructional designer I already knew these results; the way they were presented and supported though was a good example to follow at the local level! |
| Will try to assign reading ahead of time and ask related question at start of class for team discussion. |
| that there is research to which I can refer that pertains to this precise subject |
| I had never thought to ask students how long they are spending on work outside of class and adapting assignments to try to keep that constant. It takes the guesswork out of it for students and instructors. |
| a nobel price fellow great, but this is really not new anymore no credit for teaching???? we have 40, 40, 20% contracts and evaluations |
| The techniques of active learning. |
| That learning styles do not matter. |
| To look at different ways to present info in classes |
| Start class time with a question |
| I teach online. Some of the concepts I already have in my classes. I would like emphasize on quick and constructive feedback systems for peer review and for my own grading too. This approach is basically proven good for big classroom with active learning components on campus. |
| Make students interact with themselves more |
| Will try this method occasionally at first. |
| I'm going to look up an article written by the presenter that provides an inventory of active teaching practices to see if there are additional strategies I could adopt. |
| I will try looking at the ubc website for ideas on effective homework and test questions. |
| Practice all the elements of excise with feedback and reflection, motivation, and criteria. Require brain excise Expertise-centered classroom The norm is the key for making effective research-based teaching |
| Most of this aligns with my own research, but it did give me some nice references for a manuscript I will be submitting that investigates student learning. |
| Clicker strategies for student engagement. |
| The emphasis on expert mental models and how to design activities to help students exercise the skills that lead to acquiring those models - very different in my field but I like the idea. |
| to be brave in new techniques of teaching/learning |
| Data that supports active learning is solid. I use active learning in the classroom already and I am a strong advocate for change in our department for other faculty that teach large sections of intro courses. |
| How to encourage students to do well in Science and Mathematics |
| Traditional lectures are a thing of the past. |
| i might try active learning but will need the summer to develop the concepts/questions |
| Active learning approaches in large classes. |
| Need to think about to improve teaching effectiveness |
| Explain to the students at the beginning of the course and throughout the benefits of active learning and how it benefits retention and student learning. |
| Ndsu is capable of doing video lectures |
| Good evidence to present when faculty are resistant to implementing active learning. |
| Interactive learning is better than a traditional lecture. |
| reinforce my belief that team projects are useful |
| I will continue to emphasize some of the active learning aspects that I have already begun to implement. |
| a learned of a couple of resources I plan to review |
| Walking around during group activities to observe patterns of thought. |

| Statistic | Value |
|-----------------|-------|
| Total Responses | 43 |