

A Comedy of Errors: Navigating Qualitative Research on Faculty Development

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1. What We Did

' What I should think of this, I cannot tell

- Faculty Learning Community Learning about & implementing Backward Design (UbD)
- Three members wrote ~ weekly reflections
- A chronicle of our circuituous path and multiple attempts to capture faculty response to learning and implementing a new pedagogy

Instructor	# of words	# of entries in reflections journal
Mike	2026	5
Kate	4268	8
Nancy	4786	13

Instructor	UbD	Content	Course Level for UbD
	Experience	Area	implementation
Mike	Experienced	Earth	8 th grade Earth Science
		Science	
Kate	Moderate	Earth	College first year / second year
		Science	AHS 109 – Environmental Geology
Nancy	Novice	Engineering	College third year / fourth year
		Statistics	STAT 353 Engineering Statistics
			STAT 417 Applied Probability &
			Simulation
Kirstin	Experienced	Reading &	College first year; reflections mentor
		Study Skills	observer, student feedback

4. First Attempt 'What, are you mad, that

- Bandura's (1977) work on self-efficacy was used as reflection prompts.
- Started our analysis of reflections trying to use Bandura's theory of self-efficacy
- Self-efficacy plays major role in how individuals engage in tasks, goals, and challenges
- We selected specific questions from Bandura's teacher self-efficacy scale
- Quantitative nature of Bandura's scale failed to capture qualitative aspects of our reflections, and was abandoned

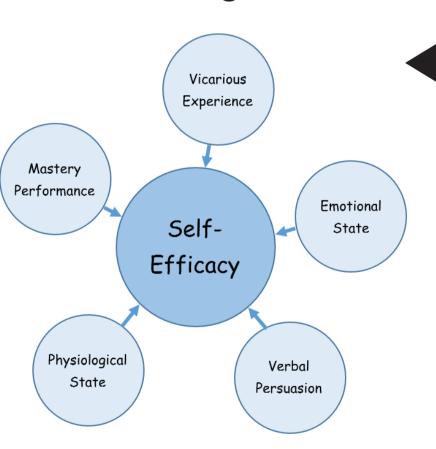


Figure 2. Components of self-efficacy, adapted from Bandura (1997)

References

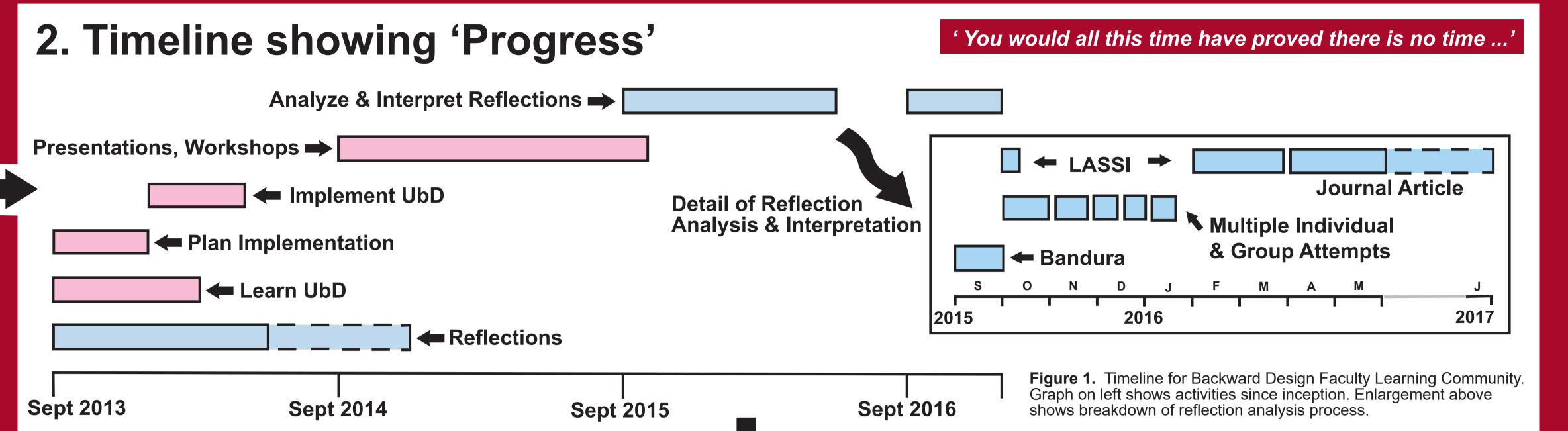
Bandura, A. (1997). Self-efficacy: The exercise of control. New York: W. H. Freeman.

Bratt, K., Sundheim, N., Pound, K., & Rogers, M. (2017). Echoes of Student Learning Modes in the Learning Processes of STEM Faculty: The LASSI Provides Themes for Faculty Development. Journal of College Teaching and Learning, (in review).

Ryan, G. W., & Bernard, H. R. (2003). Techniques to identify themes. Field Methods, 15(1), 85-109.

Weinstein, C. E., Palmer, D. R., & Acee, T. W. (2016). Learning and Study Strategies Inventory (3rd ed.). Clèarwater, FL: H & H Publishing.

Wiggins, G. P., & McTighe, J. (2005). Understanding by design (2nd ed.). Alexandria, VA: Association for Supervision and Curriculum Development.



3. Selected Reflections

I am growing more anxious (in a good way) to wrap up my first unit and see if my EQs will be the springboard that I hope them to be.

"apparent' understanding as opposed to true understanding. This is exactly what I am worried about.

...perhaps as I become more experienced and adept at the approach, some of the steps won't take as much time as they take me now.

The UbD approach requires a fair amount of work upfront

I am feeling ... excited, motivated and positive about teaching and how the course is going ... I am putting more thought into planning and prep than ever, but it is paying off - at least in terms of how I feel about the class ...

Fewer EQs IS definitely better. Still worry about depth of connection. Still worry about their ability to communicate through projects

> Although we all struggle with some of the same things, we also struggle in different areas .. this is valuable ... Different personalities, teaching styles, and thought patterns ... help expand our views. This helps ...

The empathy part of understanding can come in to play when exploring any big idea in any area.

> Which is it going to be? Engagement ... it matters! .. why do we choose to learn (or not to learn)?

am eager to begin collecting data to see how accurate my own intuitions ended up being

I am fascinated with the technique and am convinced it is a better way to teach than traditional methods

However, this evening I did have an epiphany with one enduring question and that was reward enough! (what a high!)

Already, though, this book is teaching me more about assessment than I have ever learned elsewhere.

There is a sense that I am getting a handle on the enduring understandings needed

This is going to require time. A LOT of time.

So ... success it seems. This has given me a whole new level of vigor and confidence around what I am trying to accomplish in our FLC.

The first class in the module went down like a lead balloon or at least it felt like that to

me-BUTIKNOWI was doing

your own handwriting would tell you what I think '

What really freaks me out is that when one is doing UbD, the whole issue of really knowing one's content is taken for granted..

I need to get REALLY on top

of the new material

the right thing.

The last 'ah ha' came from today's meeting. If I can bridge the gap between engaging in the EQ and being able to answer it in a detailed and deep way, then one of the big puzzle pieces falls into place.

I still do not see it as a waste of time ... I really do believe it is a better way of teaching even if the results are not strongly supporting that hypothesis.

'Thou couldst not feel his meaning?'

'Smother'd in errors, feeble, shallow, weak ...'

6. Third Attempt: LASSI-derived Themes

' After so long griet such festivity!

Discovered that LASSI* scales provide a helpful guide to theme identification

*Learning And Study Skills Inventory

Scale	Descriptor		
Motivation	Persistence	Will	
Attitude	Ability to overcome obstacles	Will	
Anxiety	Degree to which we worry about success	Will	
Selecting Main Ideas	Prioritizing content; developing EUs & EOs	Skill	
Information Processing	Processing & Implementation of UbD	Skill	
Test Strategies	Do assessments reflect anticipated student learning?	Skill	
Self-Testing	Ability to analyze and learn from implementation - 'hold a mirror'	Self- regulation	
Concentration	Ability to direct & maintain attention to task	Self- regulation	
Time Management	Avoid procrastination, up-front work, plan ahead	Self- regulation	
Using Academic Resources	Use of FLC teamwork, collaboration, CETL	Self- regulation	

What challenges have you encountered integrating qualitative research into your work?

Try coding the reflections using the Lassi-derived Themes!

7. Conclusions

'I'll tell you when, an you tell me wherefore

A vast wasteland of errors? NO! Valuable lessons on qualitative research

- Its place and purpose
- Adds nuance and insight to quantitative results
- Expectations we can hold for it
- Value of 'pawing' our reflections
- Individually analyze reflections to look for patterns - lacked framework

- too broad, missed valuable insights

Identified three 'groupings': Procedural

Concerns, Cognitive Concerns, and

Dominant Emotion, plus 'Group Valued'

 Abandon individual and group effort to ID themes - task seems hopeless

Figure 3. Image of whiteboard synthesis of group theme brainstorm

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- Individually search reflections for themes - found no universal words
- Use one set of themes to code individual reflections - many concepts missed
- Compile individually coded reflections to mesh with timeline for semi-quantitative analysis - no pattern emerged

