

University of Arkansas, Fayetteville

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Wally Cordes Teaching and Faculty Support
Center

10-25-2022

Reflections from Teaching through a Pandemic: A focus on the Silver Lining

Heather Walker

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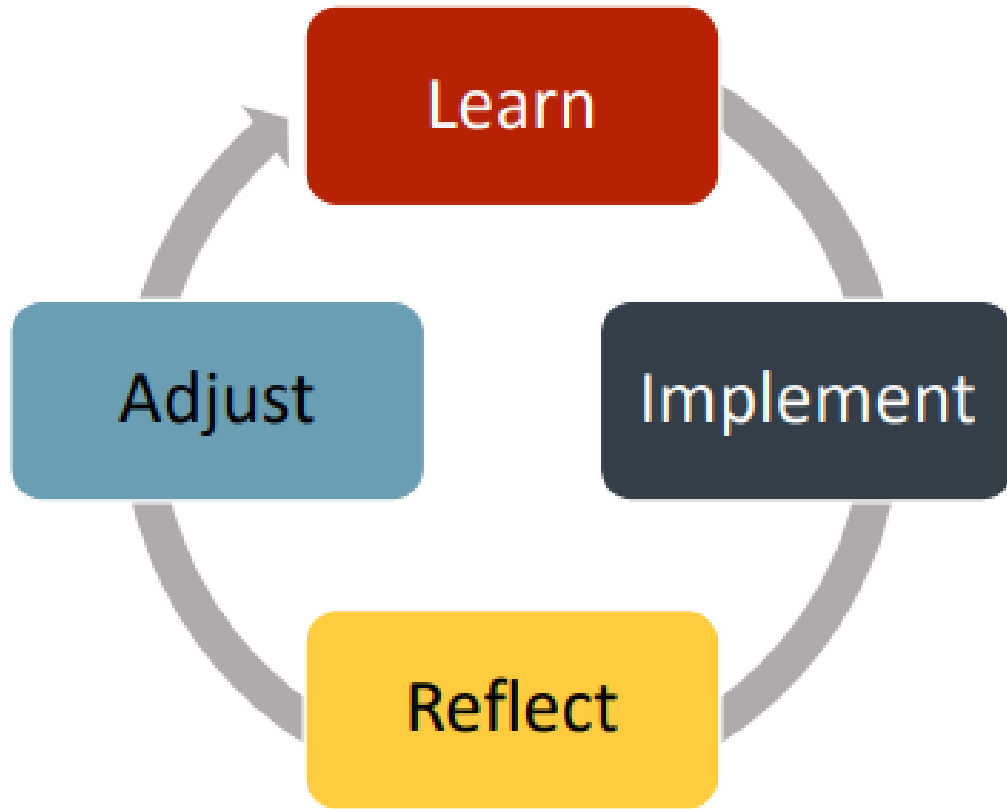


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REFLECTIONS FROM TEACHING THROUGH A PANDEMIC

- A focus on the silver lining •

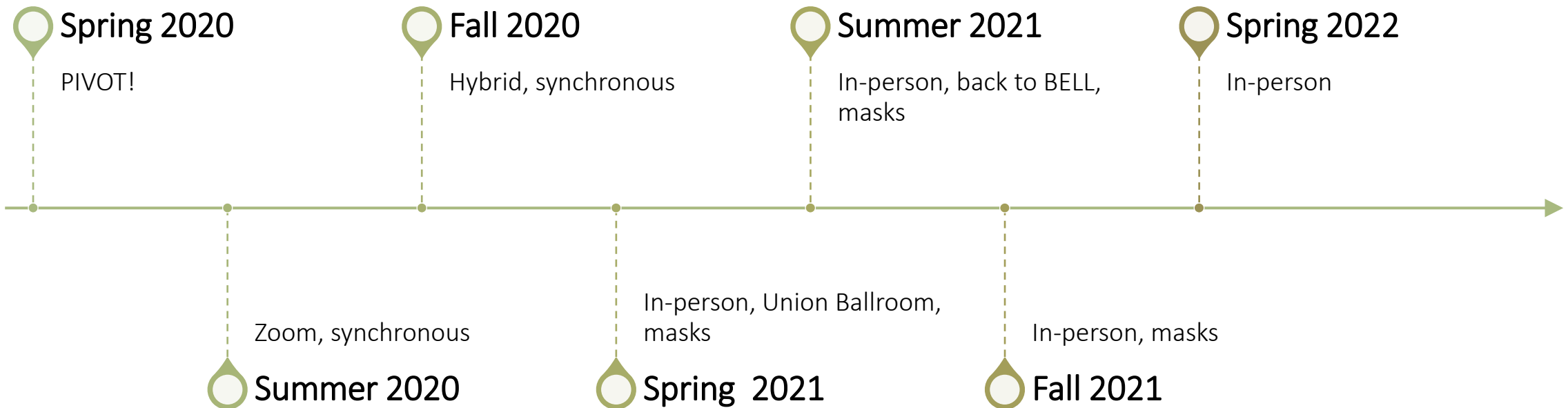
Dr. Heather Walker
Wally Cordes Chair Teaching Talk
October 2022



We do not learn from experience, we learn from reflecting on experience.
- John Dewey

Classes during the Pandemic

CHEG 2313 Thermo I: CHEG, BMEG, BAEG students (40-80 students)





let's address the cloud

- Teaching online
- Engaging students
- Technology issues
- Isolation
- Time management
- Work/life balance
- Health concerns

Parking was
great 😊

Work from
home

Innovation in
pedagogy

Learned
Flexibility

Built
Relationships

Technology
Skills

Mental Health
awareness

But it wasn't all bad

How did my teaching change?



Zoom

Blackboard

LDB / Monitor / Proctor U

Data Analytics

UA Success

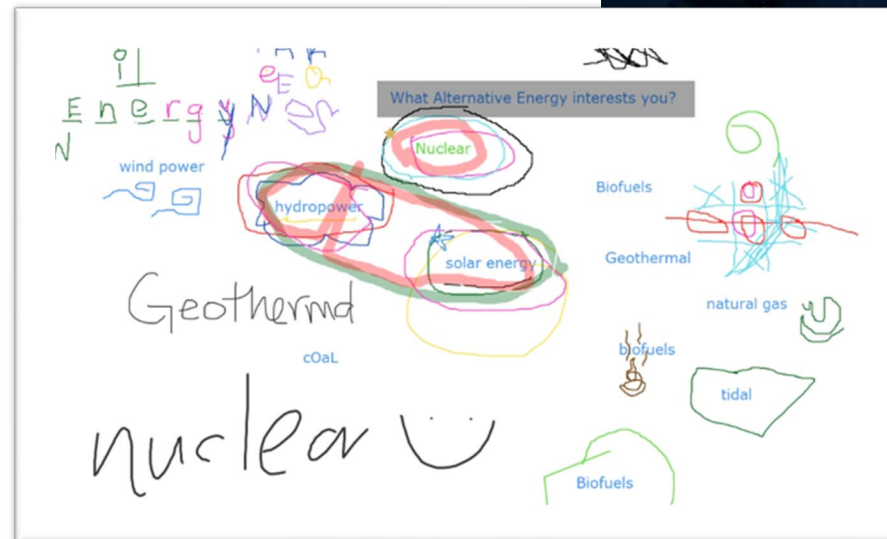
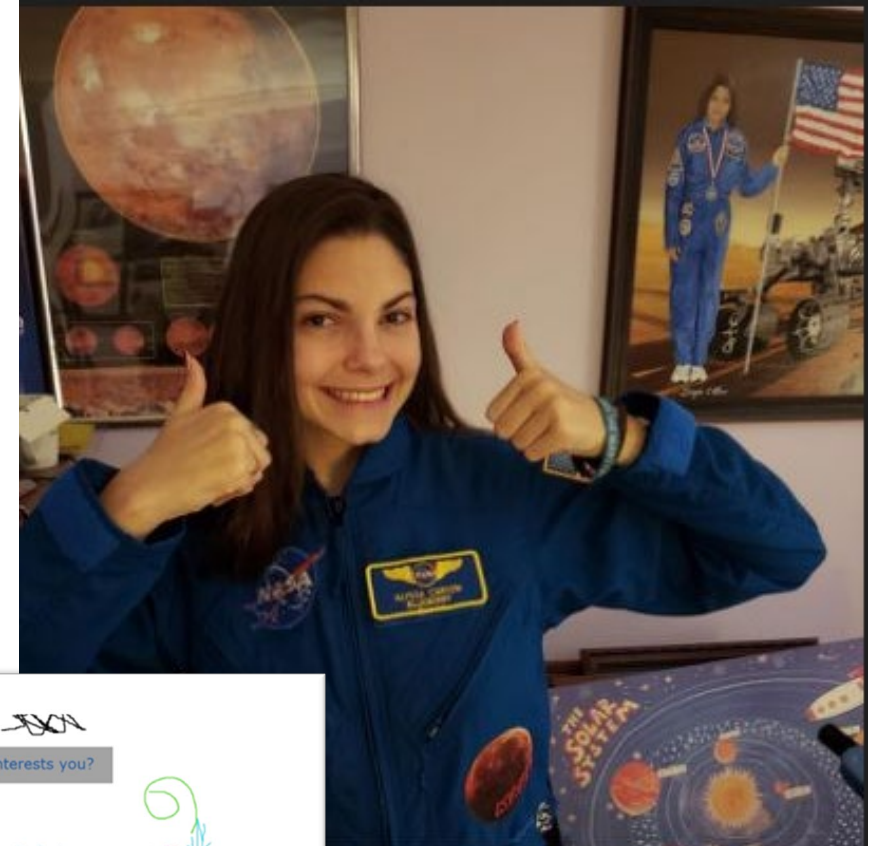
Polls & Surveys

QR codes

Technology

Off and Zooming!

- Breakout rooms
- White boards
- Chats
- Guest speakers



Zoom!

Blackboard

LDB / Monitor / Proctor U

Data Analytics

UA Success

Polls & Surveys

QR codes

Technology






Data Analytics - Kaltura



Heather L. Walker's Personal Meeting Room

Zoom Recording ID: 2086690268 UUID: jg16vTzqTwysrQmU8VWdVA== Meeting Time: 2022-02-25 08:27:03pm



 60 Player Impressions	 59 Plays	 30 Unique Viewers	 1,945.8 Minutes Viewed	 40.9% Avg. Completion Rate
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30 Users

Name	Player Impressions	Plays	Avg. Completion Rate	Total Completion Rate
	8	8	22.3% 	99% 
	4	4	26% 	99% 
	4	4	25.8% 	97% 
	3	3	33.3% 	98% 
	3	3	33.7% 	99% 

Metric Definitions

The export file contains additional metrics for each class

Class	Attendance %	Video Views
CHEG 2313 - Thermodynamic...	0	3
CHEG 2313 - Thermodynamic...	0	7
CHEG 2313 - Thermodynamic...	0	6
CHEG 2313 - Thermodynamic...	0	7
CHEG 2313 - Thermodynamic...	0	13
CHEG 2313 - Thermodynamic...	0	8
CHEG 2313 - Thermodynamic...	0	14
CHEG 2313 - Thermodynamic...	0	11
CHEG 2313 - Thermodynamic...	0	5
CHEG 2313 - Thermodynamic...	0	13

Data Analytics – Echo360

CLASSES Q&A POLLING **ANALYTICS** SETTINGS SEARCH

NEW CLASS GROUP NEW CLASS

August 22, 2022 12:55pm-1:45pm

August 24, 2022 12:55pm-1:45pm

August 26, 2022 12:55pm-1:45pm

Student Name	Weighted Engagement %	Attendance %	Video View %	Video Views
	1	0	4	7
	0	0	1	3
	2	4	6	20
	0	0	0	2
	0	0	0	1
	0	0	1	2
	0	0	1	3

Least engaged students

0%

0%

0%

0%

0%

Zoom!

Blackboard

LDB / Monitor / Proctor U

Data Analytics

UA Success

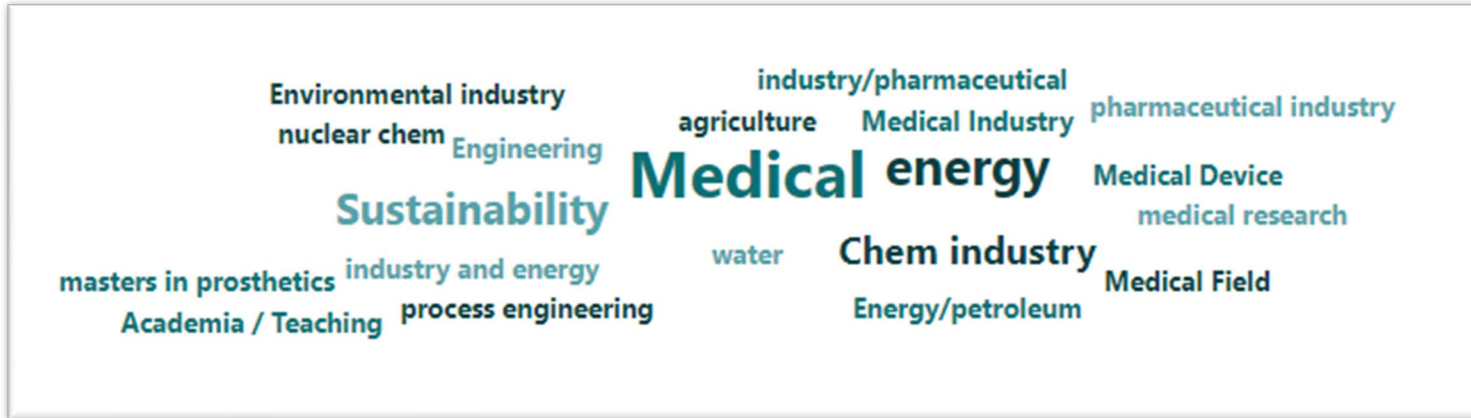
Polls & Surveys

QR codes

Technology

Polls & Surveys

- MS Forms
- Google Forms
- Qualtrics



Questions Responses 25

Thermo Intro - Spring 2022

1. Please enter your name (including pronunciation details if needed)
2. What do you want to go by (ex: Amy instead of Amanda)?
3. Where are you from (ex: Fort Smith Northside or St. Louis, Missouri)?
4. What is your major (ex: CHEG, BENG, BMEG, ...)?
5. What year are you in your degree program (ex: Freshman, Sophomore, Junior, Senior)?
6. What are your career interests (ex: chem industry, energy, sustainability, medical, ...)?
7. What are you involved in on campus (band, Greek life, SWE, UG research, ...)?
8. Give me a fun fact about yourself
9. What was your highlight from the break?
10. Who is your favorite fictional character (Marvel, Harry Potter, Star Wars, LOTR, Narnia, anime, ...)?

Zoom!

Blackboard

LDB / Monitor / Proctor U

Data Analytics

UA Success

Polls & Surveys

QR codes

Technology

Relationships

1st Responders

IT Team, Kathryn Z,
Shelly W, Luc G, Justin
S, Bob H, Chris B, Jim
C, Fred F ...

Life Support

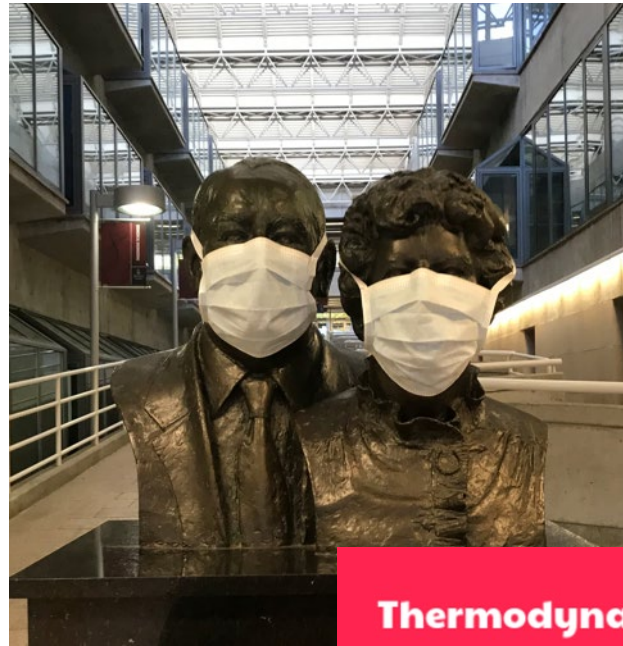
TFSC
TIPS
Bbhelp
Global Campus

Student Care & Community

Hosted Socialization & Wellness Events

- Gaming night
- Book club
- Cooking demonstration
- Virtual Bingo
- Guest speakers
- Pet parade
- Watch party for space launch
- Speed-friending sessions
- Picture scavenger hunt

Learned Thermo & built community
Synchronous attendance never dropped
below 73%



Thermodynamics

Potential Energy	Carnot Cycle	Heat Engines	Enthalpy	Mass
Heat	Maxwell Relations	Refrigeration	Joule-Thomson expansion	Energy
Reversible	Entropy	Steam Tables	2nd law	Work
Equilibrium	1st law	Heat Capacity	fugacity	Gibbs Free Energy
Equations of State	Clausius-Clapeyron	Mollier Diagram	Ideal Gas Law	Steady-state

myfreebingocards.com

Follow effective action with quiet reflection. From the quiet reflection will come even more effective action.

- Peter Drucker

Going forward

Toss / Keep / Adapt

Toss

Hybrid synch
Blackboard exams

Keep

Relationships (TFSC!)
Technology (Zoom, UA Success, Guest Speakers, polls)
Care for students (compassion & empathy)

Adapt

Care for students (in-person)
Find new ways to engage students
Breakout rooms – card deck



Questions?

Thank you
Wally Cordes
Teaching Faculty Support Center!