

Flipping 101: An introduction to flipped classrooms



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March 4, 2013

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I'm Feeling Lucky

Google

Julie Schell

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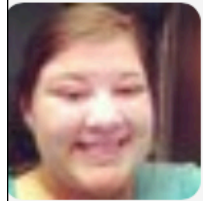
Workshop Goals



After taking this workshop you will be able to explain:

1. Why we should flip our classes
2. What a flipped classroom is, anyway
3. How to flip your class

Why should I flip my classroom?

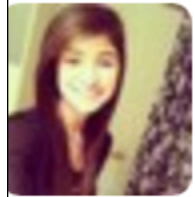


brianna girlie @bripaigegirlie

33 mins

I hate school. Ihateschool. I HATE school. I h8 school. I hate skool.
lh8skool. I. hate. school. Eye h8 skool. I HATE SCHOOL. #ihateschool

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LundenStallings @livestrong_1

Feb 25

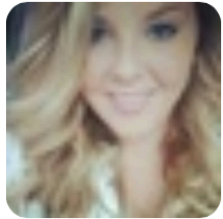
I was having a pretty good night, until I realized i gotta get up for prison in the morning 😊🔫 #ihateschool

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11
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3
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Allison Newby ♥ @allisonnewby13

Tomorrow is new fresh start to a long week of torture.

#ihateschool

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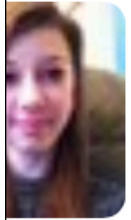


JasmineJandu @JasmineJandu

13 mins

I hate the fact that there's school tomorrow. Dead serious right now, I'd rather throw up and sit on it. **#ihateschool**

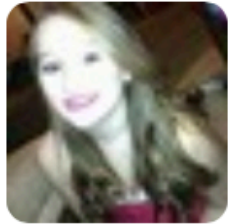
Expand



Kaylee Krepps @kay_lay13

Fel

Dear pre-calc, **I hate** your stinking guts You make me vomit You're the scum between my toes Love me P.S. send that message to **physics** too



Adrianna ∞ @Adriannaa_Leigh

Its official. I'm dropping out of school and becoming stripper!

#ihateschool

Expand

When thinking about your teaching,
what keeps you up at night, TWU?

“Nothing keeps me up at night. :)”

TWU

“I want the students to be successful, but sometimes feel there is a huge disconnect. How do I help them apply their learning?”

TWU

“Bored students.”

TWU

“How can I interest the students?”

TWU

“How do I make it more interesting?”

TWU

“Even when taking a lot of time to put together an interesting lecture, the delivery is not always as exciting to the students as I expected.”

TWU

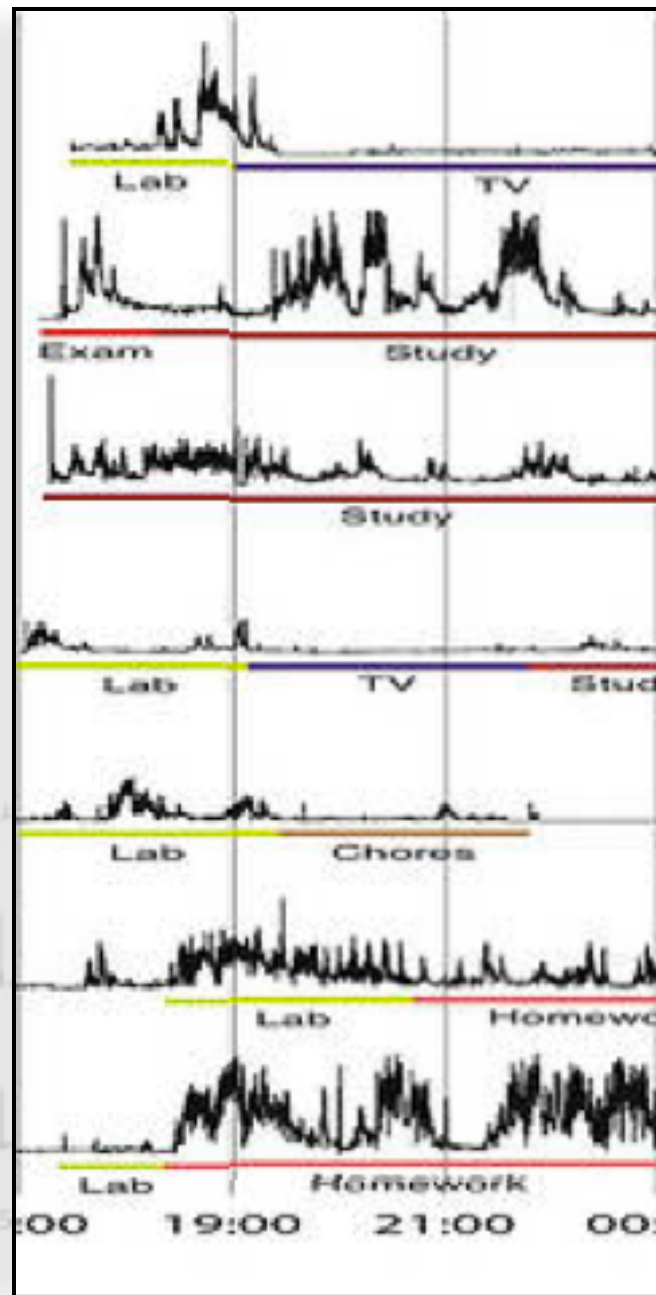
Why should I flip my classroom?

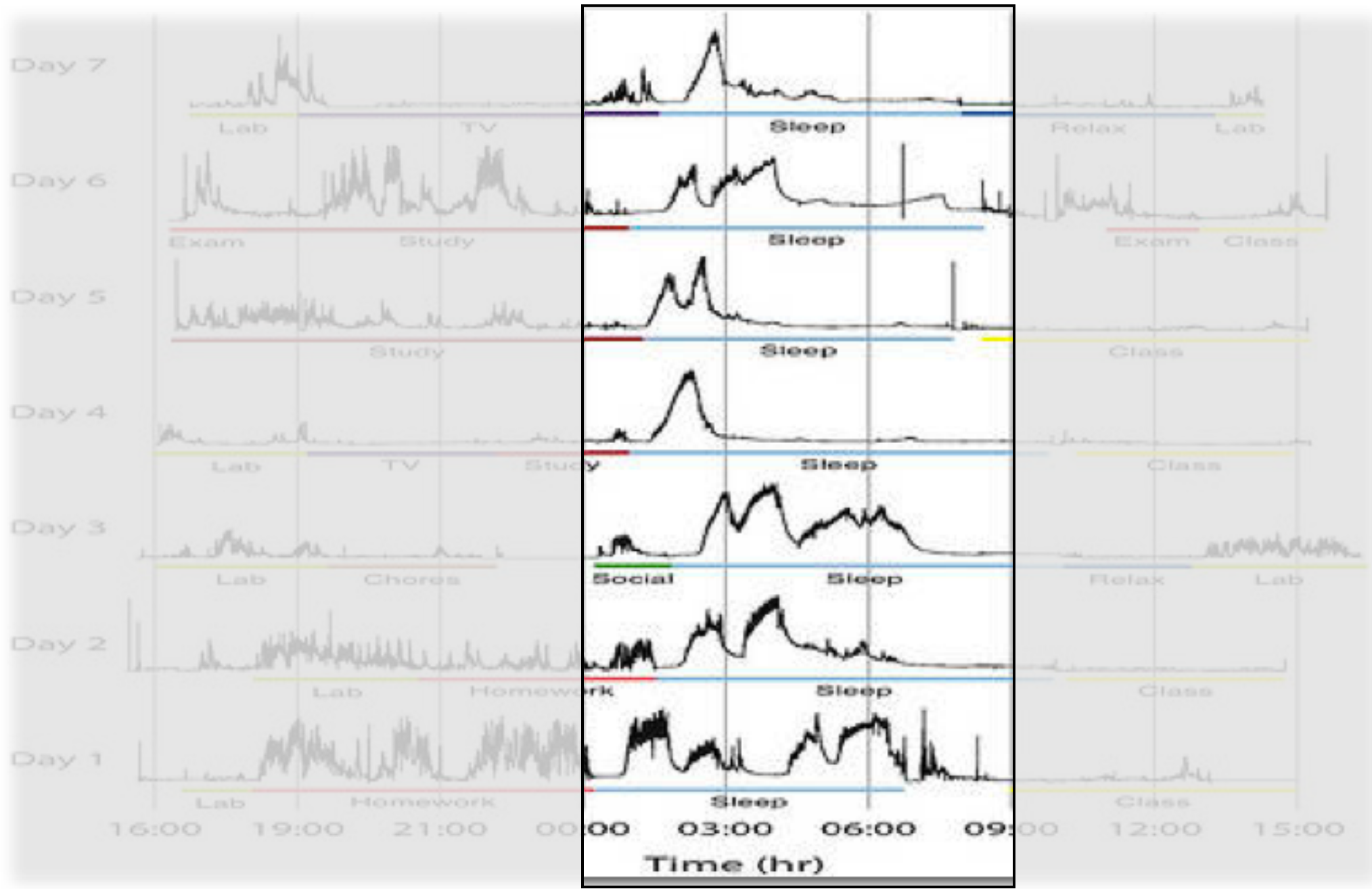
My Message

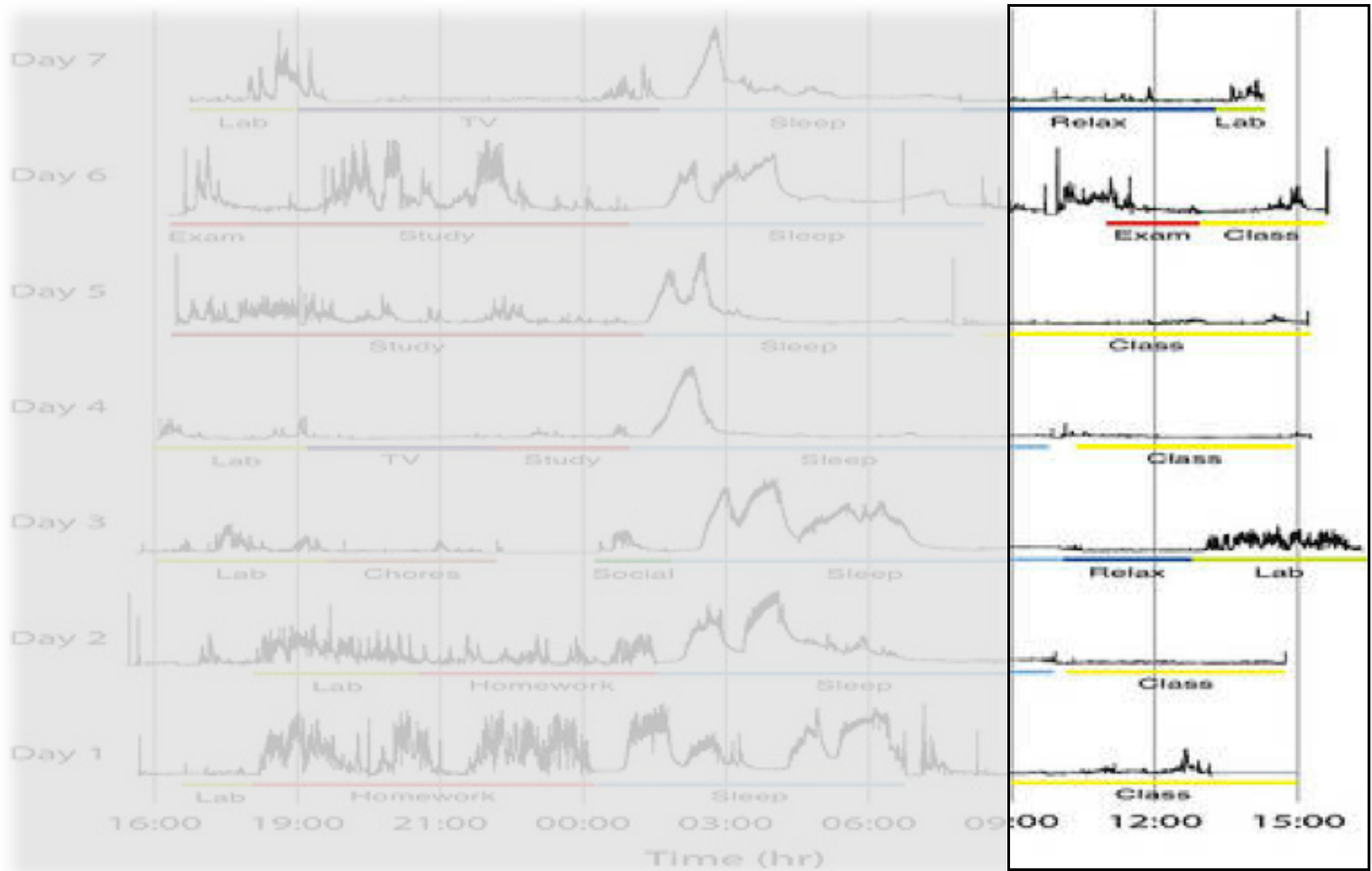


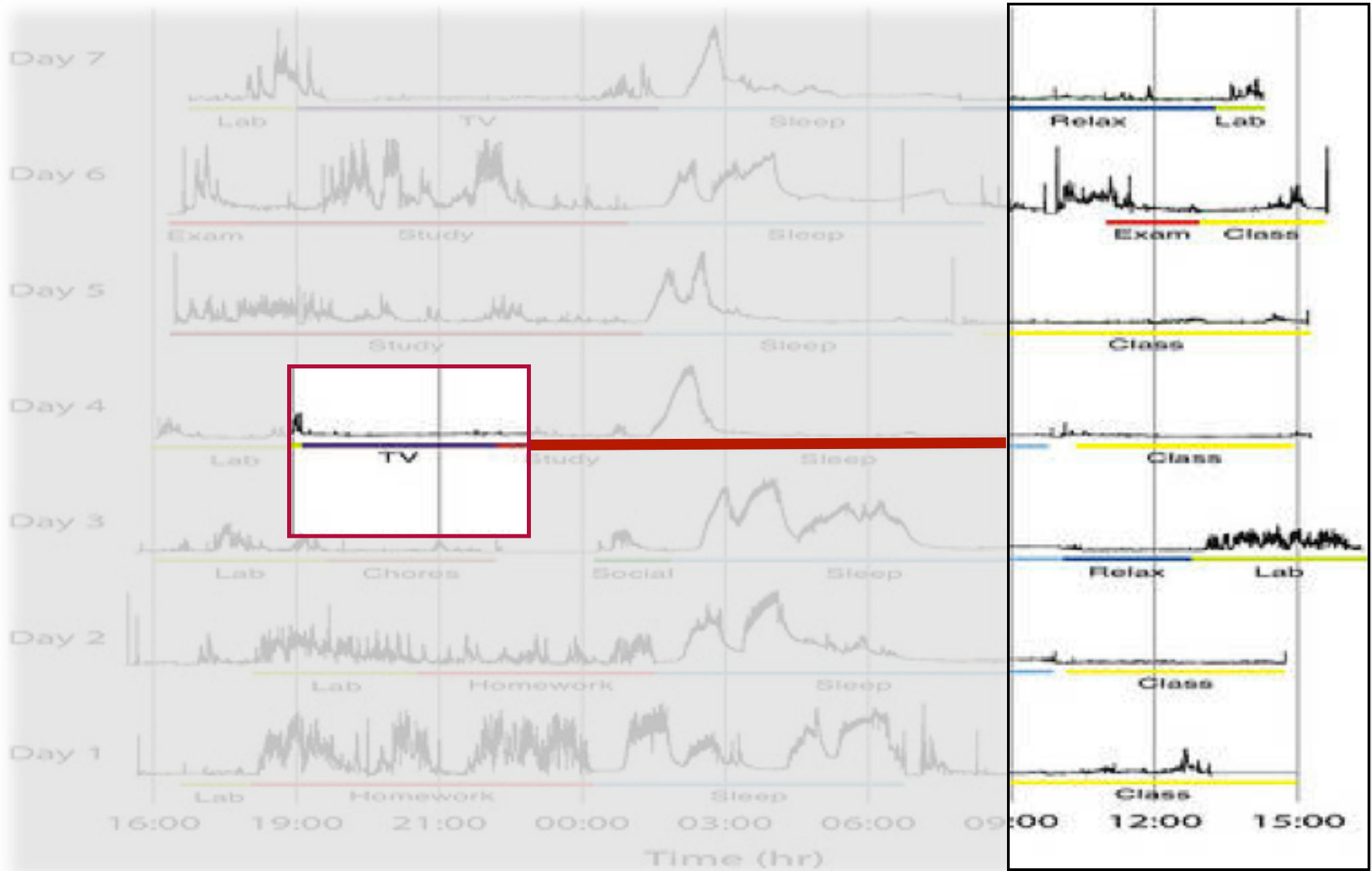
Education
doesn't have to
be this way,
for US or for
THEM.

What's the problem with what is?

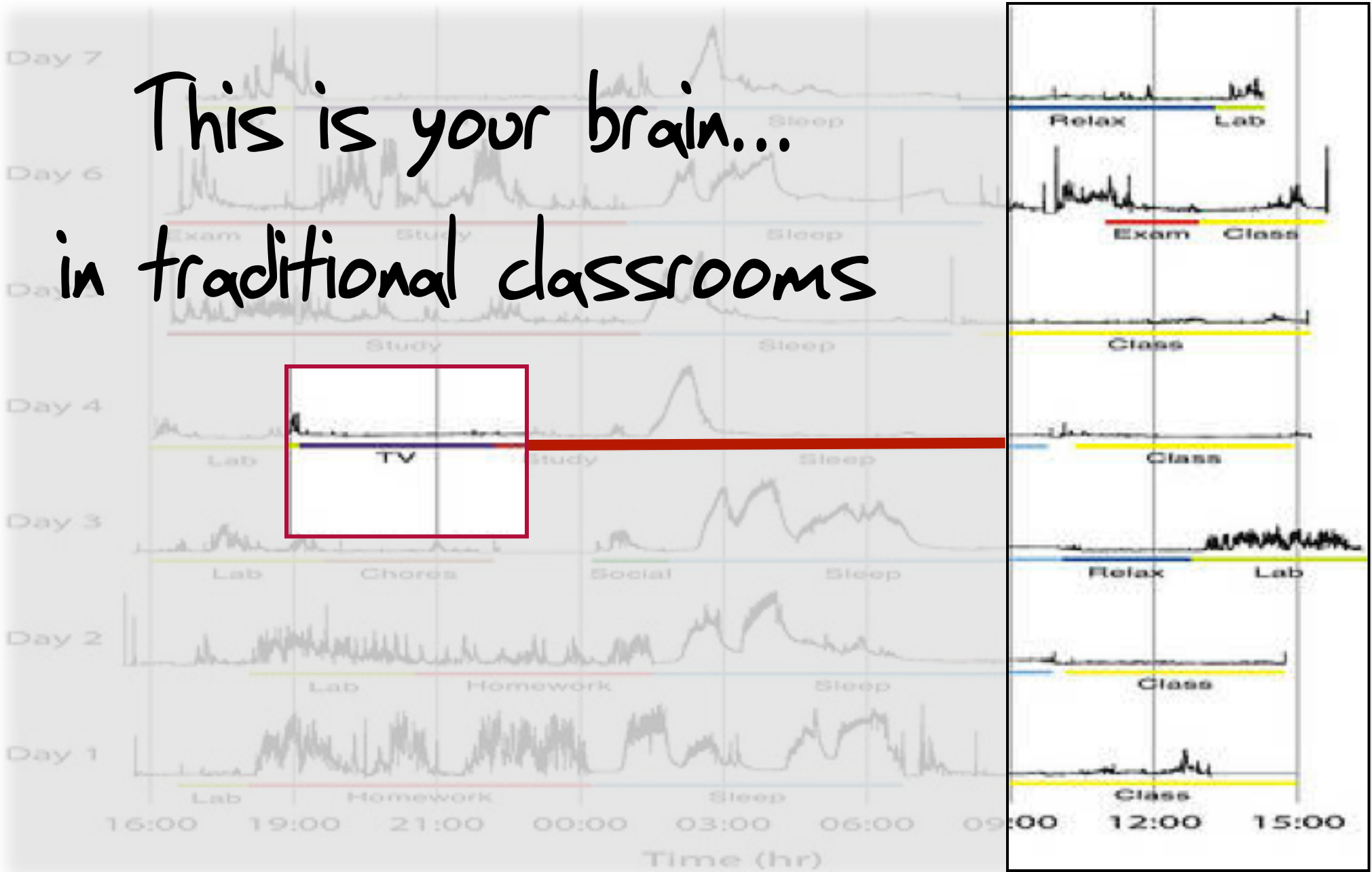








This is your brain...
in traditional classrooms



Bloom's Taxonomy of Cognitive Skill

Lower Order



Bloom's Taxonomy of Cognitive Skill

Higher Order

Create

Evaluate

Analyze

Apply

Understand

Lower Order

Remember

In a traditional class, students get first exposure to material in class, primarily through lecture.

And spend time applying material out of class, primarily through homework or assignments.

Traditional class

Higher Order

Create

Evaluate

Analyze

Apply

Understand

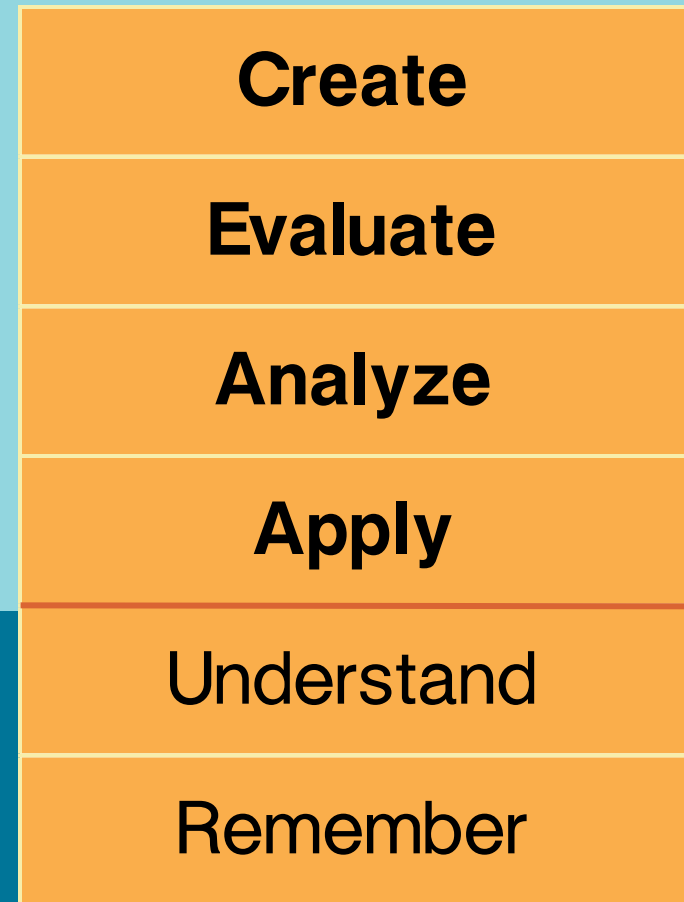
Lower Order

Remember

In class (easy, less authentic, led by teacher, happens in community)

Traditional class

Out of class (hard, left to student, more authentic, happens in isolation)



In class (easy, less authentic, led by teacher, happens in community)

Flipped class

Create

Evaluate

Analyze

Apply

Understand

Remember

In a flipped class, students get first exposure to material out of class.

And spend time applying material in class, through any range of assimilation activities.

Flipped class

In class (hard part, more authentic, happens in community)

Create

Evaluate

Analyze

Apply

Understand

Remember

Flipped class

In class (hard part, more authentic, happens in community)



Out-of-class (easy part, less authentic, happens in isolation)

Traditional class

Out of class (hard, left to student, more authentic, happens in isolation)

In class (easy, less authentic, led by teacher, happens in community)



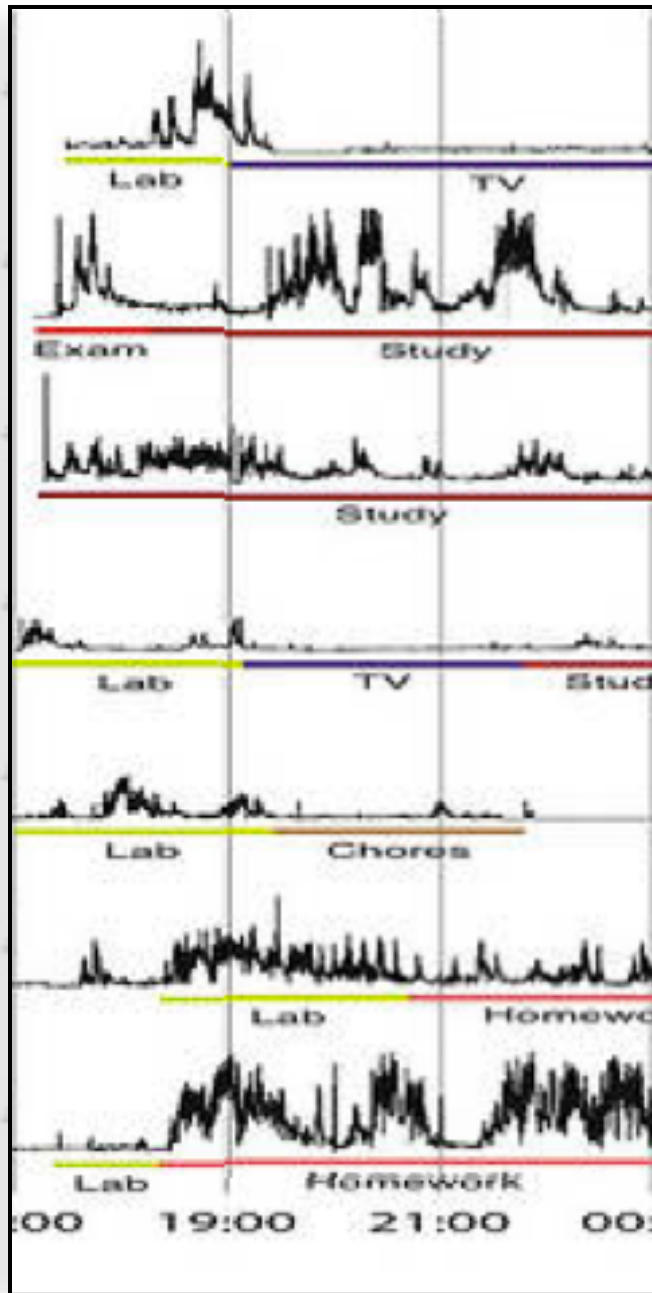
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cookies**

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Why should I flip my class?



To create better
learning experiences
for US and THEM.



“I flipped my class because I realized that as a lecturer, I was the person learning the most in my classroom. I read the articles before class, took notes, wrote explanations, re-read the articles, thought of counter arguments, and wrote the lecture. I was “actively doing” but all my students did was sit passively, **MAYBE** they listened, but they didn’t **DO** anything, and I don’t think they learned much. I knew there was a better way.”

Dr. Cassandre Alvarado, UT-Austin

“I flipped my class because even though I was receiving high student evaluations, and my students were doing well on their exams, I realized they actually didn’t understand even the most basic, fundamental concepts in physics. This was a turning point in my teaching career.”

Dr. Eric Mazur, Harvard University

Why do you think you should flip your class?

What is a flipped classroom?

“It’s hard to answer questions about flipped classrooms when I don’t know what they are.”

TWU Faculty

**“I have never heard about a flipped class
and do not know what this is.”**

TWU Faculty

1. Flipped classrooms are the latest edutrend.

A. True

B. False

“The University would have science taught in a rational way, objects and instruments in hand, - not from books merely, not through the memory chiefly, but by the seeing eye and the informing fingers...A student in the elements gets no such training by studying even a good textbook, though he really master it, **nor yet by sitting at the feet of the most admirable lecturer.**”

Charles Eliot, 1869



2. Flipped classrooms replace faculty with computers.

A. True

B. False



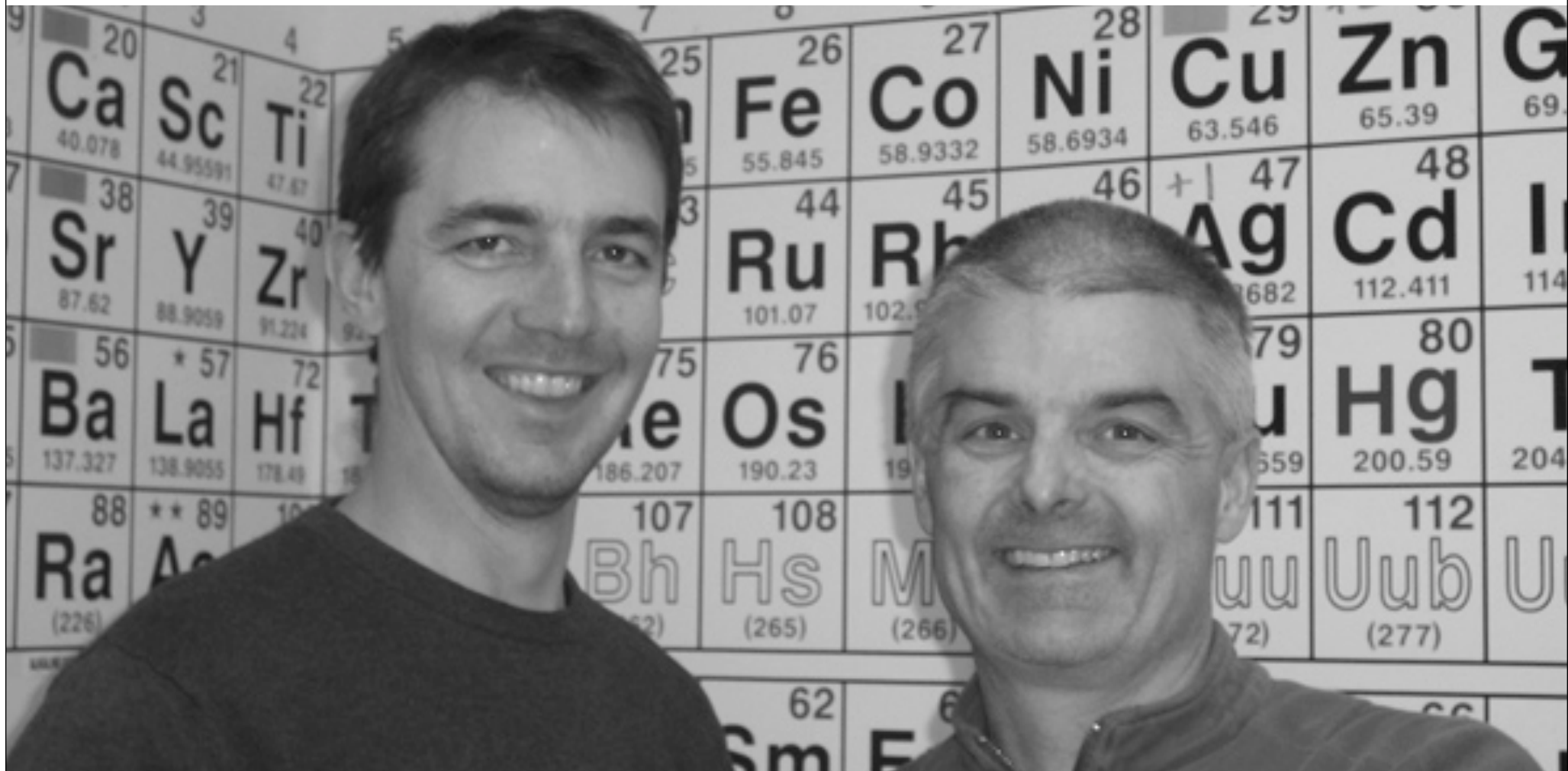


3. Flipping a classroom is primarily about putting lecture videos online.

A. True

B. False

“Flipping the classroom is...[a] **mindset** redirecting attention away from the teacher and putting attention on the learner and the learning.”



4. My students will not do out-of-class work in a flipped class.

A. True

B. False

If you **assess** it, they will come.



5. My students will love not having lectures.

A. True

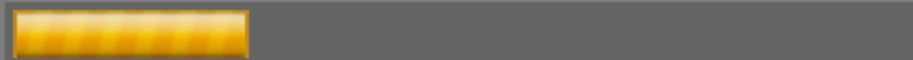
B. False

Students will love not having lectures in class

False **74.57%** (302 votes)



True **25.43%** (103 votes)



Total Votes: **405**

Comments (0)

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Don't use the term “flipped classroom” or “experimentation.”

“Do you have to do a completely flipped classroom or can you use a mixed method effectively?”

TWU Faculty

7. You need to flip all content in a flipped class.

A. True

B. False

8. It means no more lecture.

A. True

B. False



8 Big Ideas about Flipped Classrooms

- 1 Flipped classrooms have a long history
- 2 Flipping a classroom is about increasing interaction between students & teachers
- 3 Flipped classrooms are about creating a mindset where students take more responsibility for their learning
- 4 Students will do work..if you incentivize it
- 5 Students may miss having lecture & be vocal about it
- 6 Be up front about expectations, avoid using terms “flipped class” or “experimentation”
- 7 You can flip one concept or 10 or a whole course
- 8 Lecture in short chunks permitted, there is no one right way to flip a class.

2 Key Characteristics

1 -First exposure and first coverage happens outside of class

2 -More guided practice or assimilation happens in class.

What are ways you have already flipped your class?

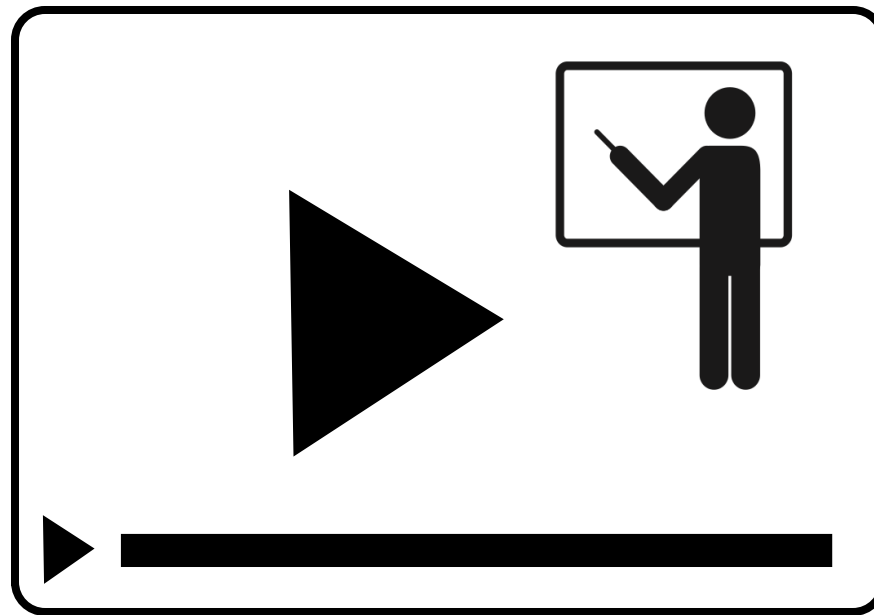
What is a flipped classroom?

How do I flip my class?

4 quick steps to flipping your classroom

F	Find a concept to flip
L	Lift coverage out of class, incentivize with assessment
I	Implement application activities in class
P	Pick what worked & didn't work, tweak for next concept

Flipped 101 Model



Out of class activity is lecture video

Flipped 101 Model



Homework Problems in Class

What do I do out of class?

Get content for first exposure

1- Others'
Content

Books
Journal Articles
TedEd
Kahn Academy
You Tube

2 - Personal
Capture

Your own writing
Screencasting
Lecture Capture

An annotated list of free resources for flipping your classroom

NB

Piazza

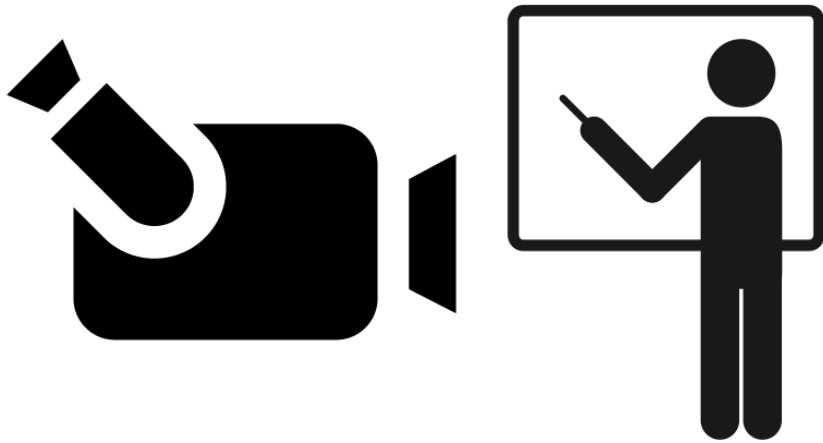
PeerWise

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blog.peerinstruction.net

Screencasting



1 Record Lesson



2 Provide Access

Screencasting Tips

C

Chunk your videos - 7-15 mins each

A

Ask students a feedback question (what did you find confusing about the video?) and give credit for answering

S

Show students how to actively watch a video

T

Test students on the content in formal assessments

Quick start guide for flipping your classroom with screencasting

blog.peerinstruction.net

DEMO MAKING A VIDEO PDF

What do I do in class?

Example In-class Protocol for a flipped classroom

10 mins

Answer questions about video or other content OR quiz on pre-class content

50 mins

- Activities that will allow students to apply principles or concepts.
- Socratic questions
- Clickers

IF-AT Assessment Technique

What do you want me to do, Julie?

Call to Action - FLIP 1 concept

F	Find a concept to flip
L	Lift coverage out of class, incentivize with assessment
I	Implement application activities in class
P	Pick what worked & didn't work, tweak for next concept

hero

mentor



“I want to hear from a math instructor who has done it and it is successful.”

TWU Faculty

www.peerinstruction.net

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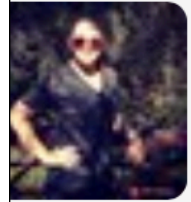
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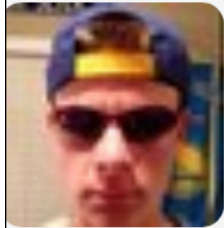
Edden Ered @eddenelite

Feb 25

Lol just took a Spanish test without knowing what one word means 🙌

#iloveschool #especiallspanish

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Kyle Galbaugh @kyle_galbs

#iloveschool because I love learning and all my teachers

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Acknowledgements

PEOPLE

Eric Mazur

Ives Araujo

Vagner Oliveira

Cassandre Alvarado

Brian Lukoff

Peter Newbury

Dan Meyer

Nancy Duarte

BOOKS

Flip Your Classroom

Peer Instruction a User's Manual

Just-in-Time Teaching

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