

How do we achieve this in the university classroom?

Khan Academy

A pioneer in flipping the classroom by putting lectures online.

Online videos for K-12 students. Teach everything from biology to algebra.



Lev Golnik

“Those faculty champions who are ... the vanguard, they alone have the passion and the altruism to try to do things that are essentially superhuman.”

- Lev Golnik, VP for Information Technology Services
Case Western University
20 August 2013



Traditional Model

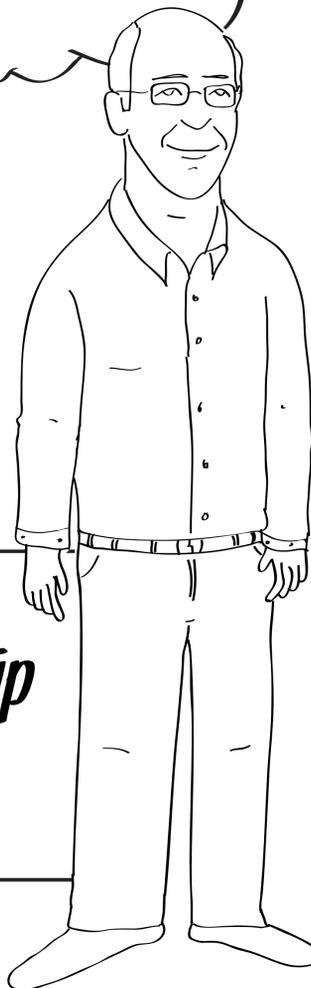
In class lectures.

Assignments and reading for homework.

Flipped Model

Lectures and readings done online for homework.

Discussion and Activities replace lecture time in class.



When Professors Flip

Presented by
Dr. Harold Jansen

Huge advantage over in class lectures



Introductory Research Methods

Objective of this course is for students to learn about statistics.

Students will learn how to consume statistics.

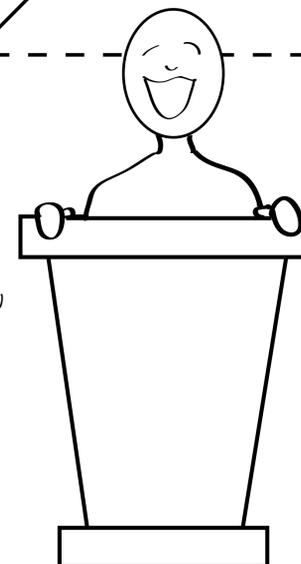


Lecture Method

In class lectures.

Taught them how to follow instructions well.

BUT students could not determine how to solve a problem on their own.



Advantages

Engaging with students in class.

Students ability to review the lecture at anytime online.

Disadvantages

Much more grading to do.

Workload for this type of course is high, especially with the first attempt.

Technical expertise is needed.

Workflow to Flip the Class

1. outline/storyboard video for conceptual component
2. build visuals for conceptual component
3. record voiceover (usually several takes)
4. export it to video format
5. outline/storyboard SPSS component
6. record screencast (usually several takes)
7. edit components together
8. render video
9. upload video
10. develop assignment
11. build assignment in Moodle

15 - 20 hours/week

10% increase in exam scores

Lab Method

Watch the video online before the lab session.

Allow for time to digest and review.

Ability to rewind and review lectures.

Work in groups or individually in class.

In class time is considered lab time.

Students should be applying what they learned online.

One on one help available during class time if needed.

One on one time was the biggest factor in improving student learning.

