

# An Apple a day keeps the doctor at play

Efficient faculty improvement of student success with tablet technology

## Implementation

- DISCOVERe professional development early 2014
- Taught BIOL 102 in Fall 2013 (F'13); in F'14 as parallel "traditional" and "tablet" sections
- **Recorded each class (using ExplainEverything app); posted online for both F'14 sections**



## Lecture Recording



**Joseph Ross, Ph.D.**

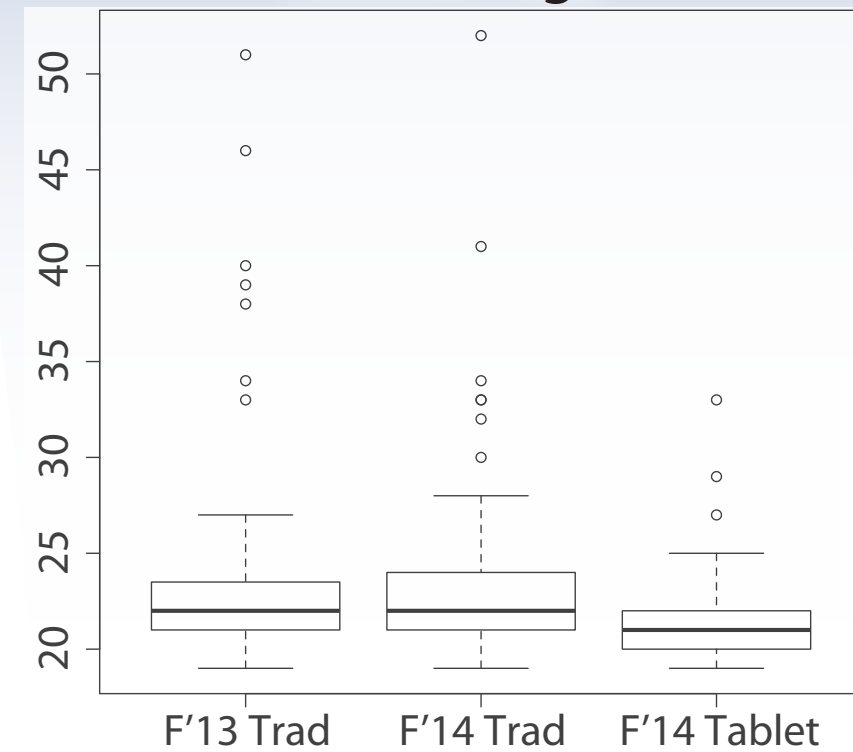
DISCOVERe Faculty Fellow  
Assistant Professor of Biology  
California State University, Fresno

Special acknowledgment:  
Office of Institutional Effectiveness for advice & assistance with demographics data

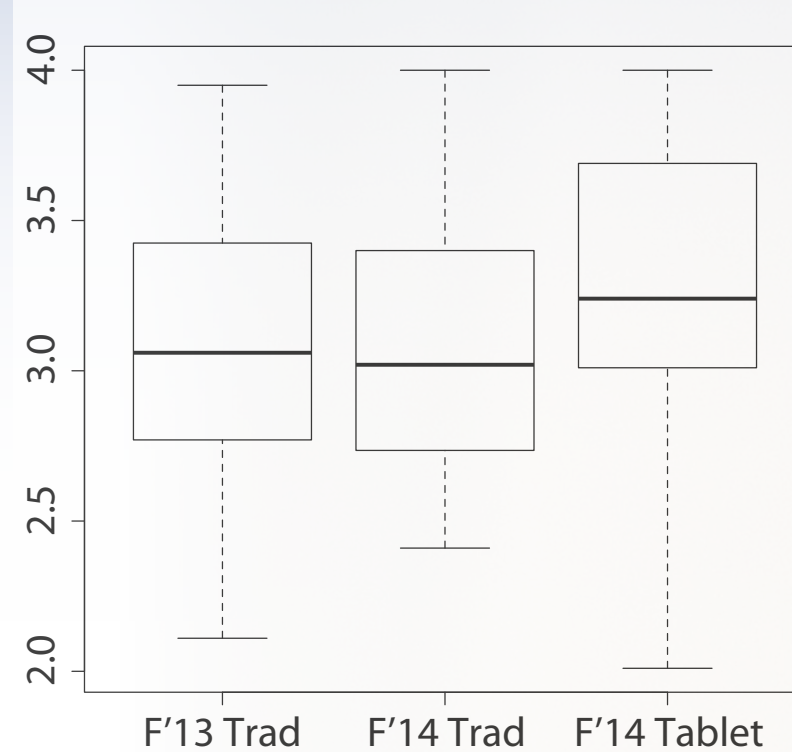
## Student demographics &

Year: Section	n	% female	% 1st-gen. students	% URM	% Pell eligible
F'13: Traditional	72	53	65	33	58
F'14: Traditional	52	57	60	48	53
F'14: Tablet	29	<b>31</b>	<b>52</b>	<b>30</b>	<b>38</b>
F'14: Biology Dept.	1,078	59		44	

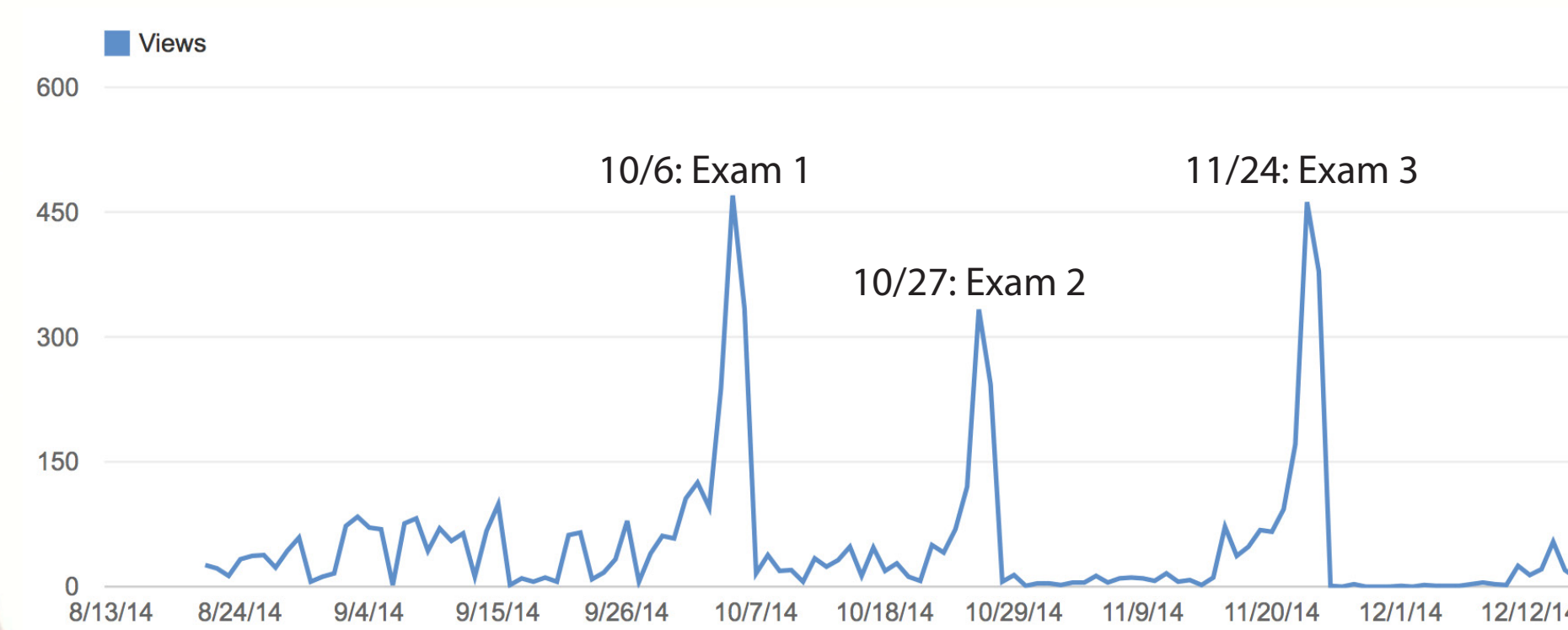
Student Age



Start of term cumulative GPA



Instructor-created videos: ~80  
Video views: ~6,000  
Total minutes watched: ~55,000



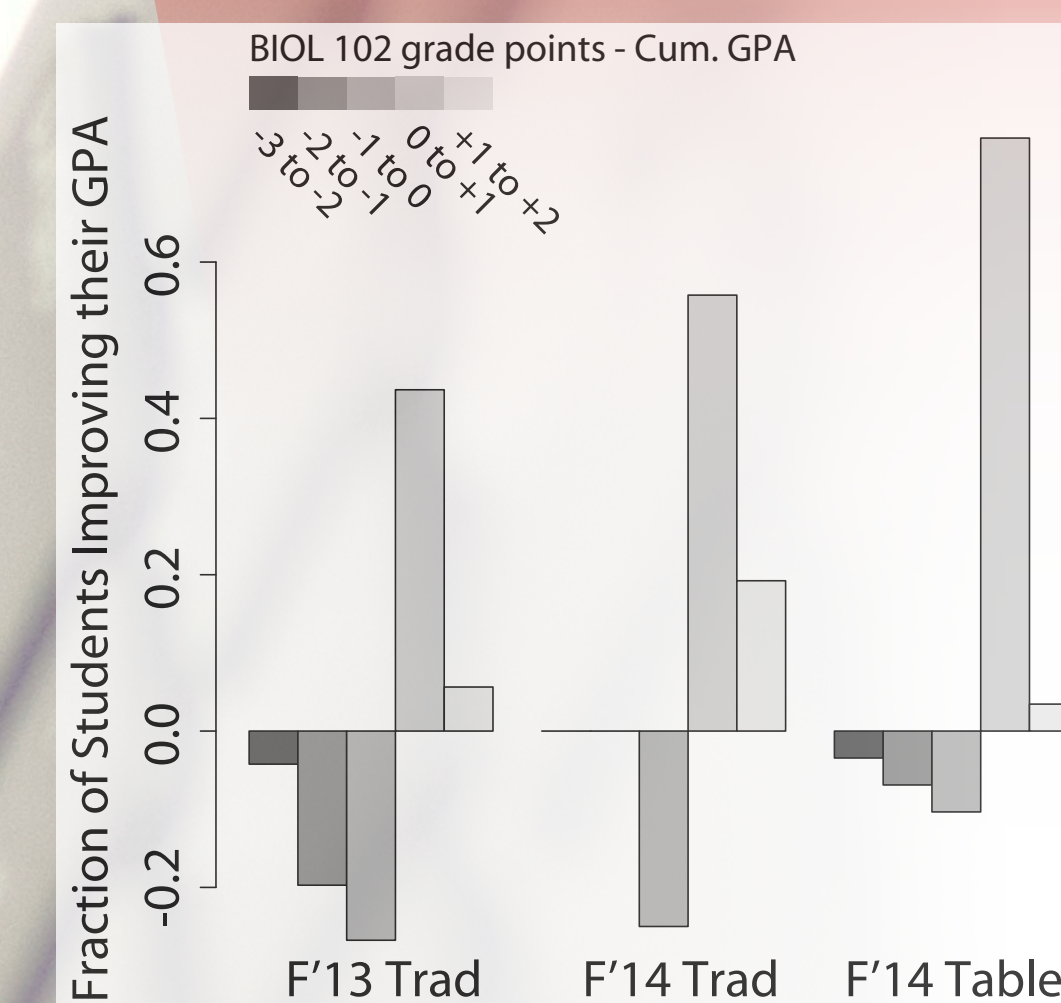
70% of "traditional" students and 50% of "tablet" students reported that watching the online videos "greatly helped" their success in this course, while only 10% and 30% of students said the same for reading the textbook



ask me to show you  
an example recording  
from class!

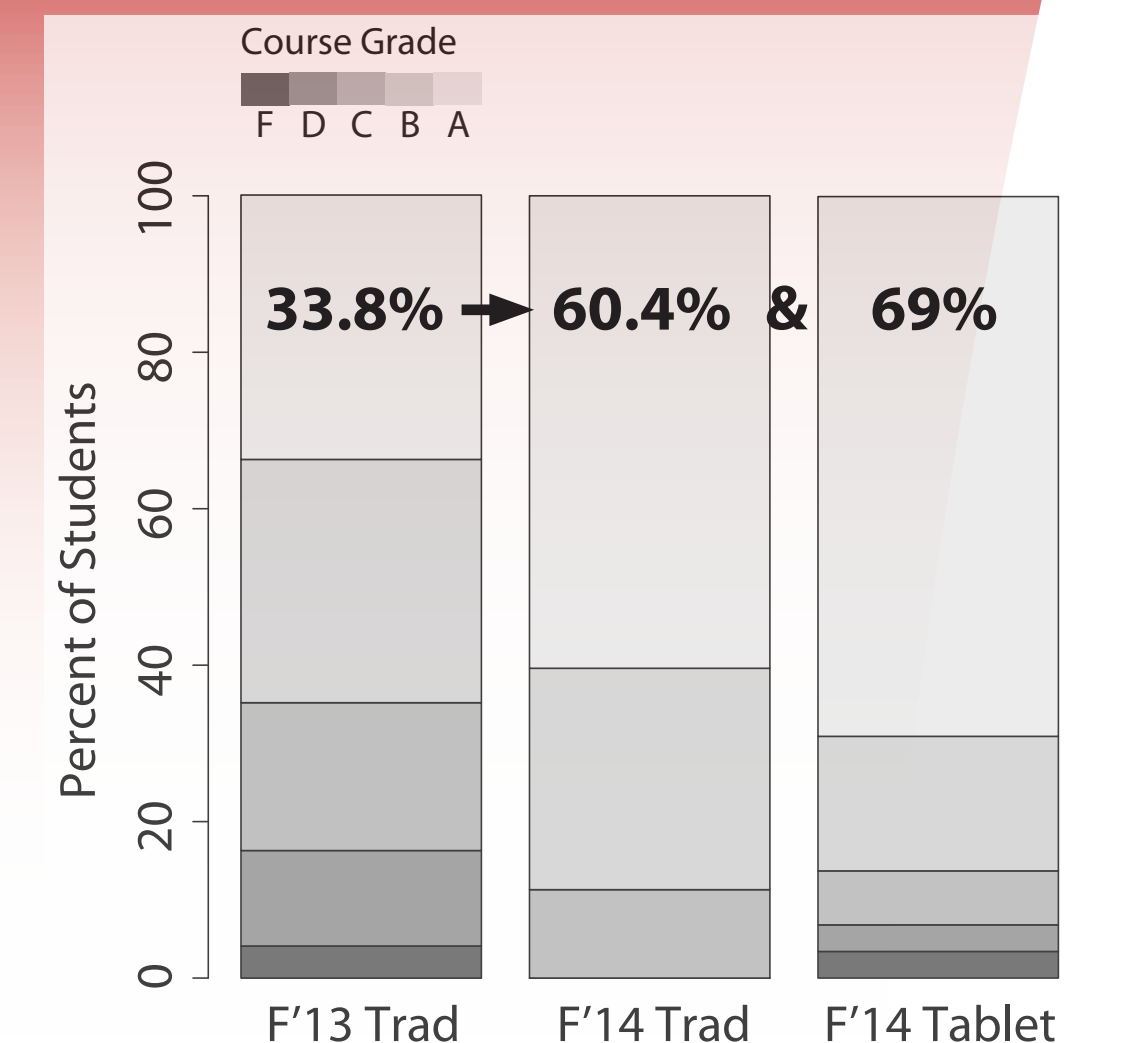
## Results, analysis,

"I listened to your presentations on the way to school"



Number of students earning grades higher than their cumulative GPA **increased**

"I usually don't get access to class information prior to lecture, so watching lecture videos before class was helpful to follow along, gave a good foundation"



Number of students earning A grades **increased** in both sections after F'14 introduction of instructor video content

"I could review the lectures (recorded) more and could stop/pause if I had a problem and looked [sic] it up in the textbook"

## and student comments

## Conclusion

Faculty tablet training and classroom use can make a broad impact

## Future Directions

- Enhance office tech for digitally distributed office hours
- Create digital textbook; incorporate existing videos

## Want more details?

- Best practices
- Example tablet activities
- Visit my blog:

 @rossbiology

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tabletpedagogy.blogspot.com:

