# How Effective is the Flip?

Student Perspectives and Faculty Challenges Implementing the Flipped Classroom

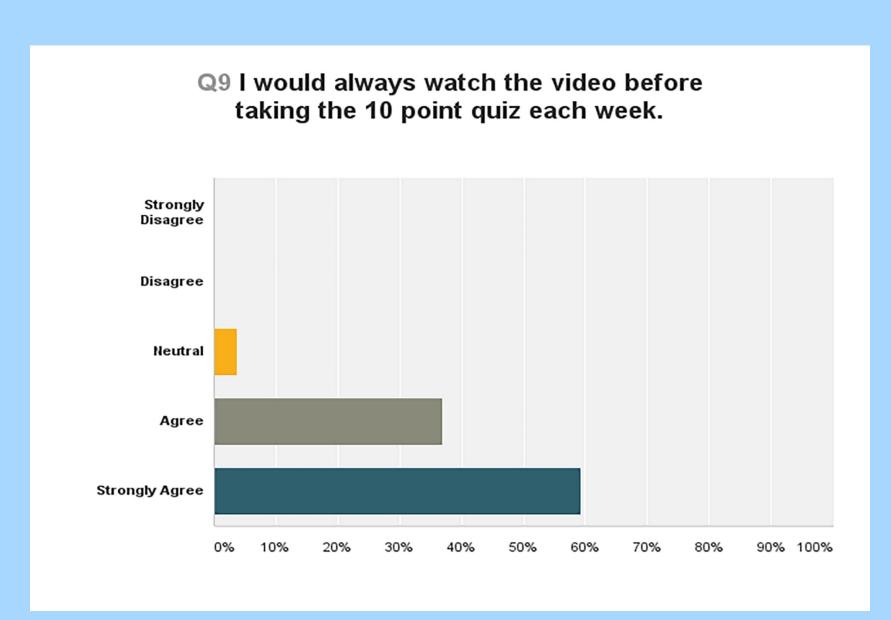
# Background

- Too much time spent lecturing to prepare students for lab activities.
- Blend traditional lab format to flipped classroom approach during semester long course.
- Increase student preparedness and accountability through an innovating teaching strategy.
- Provide students with familiarity of lab equipment, anatomical models, and procedures before lab begins.

**Purpose of the Study:** To investigate if using the flipped classroom model increases BIOL 121L retention of course content and lab practical scores.

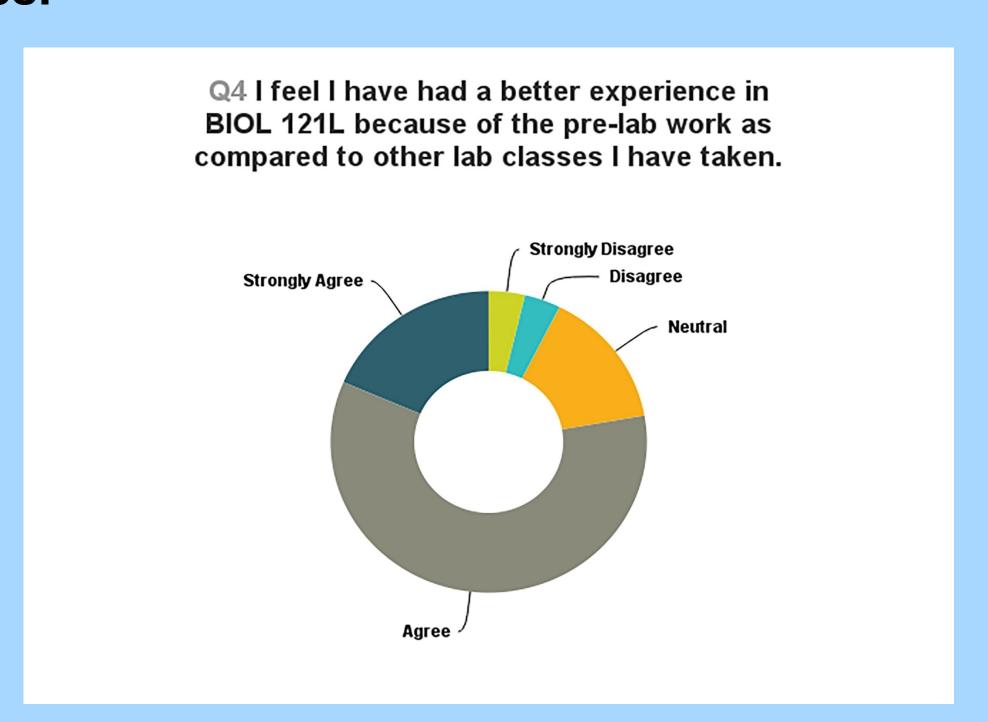
# Methods & Design

- Blackboard was the online platform used.
- Weekly recorded videos via Flipcam
- Students take weekly online 10 point quiz.
- End of course survey- Quantitative
- Follow up Student Focus Group- Qualitative
- Requirement to listen and learn from the pre-recorded video before coming to lab.

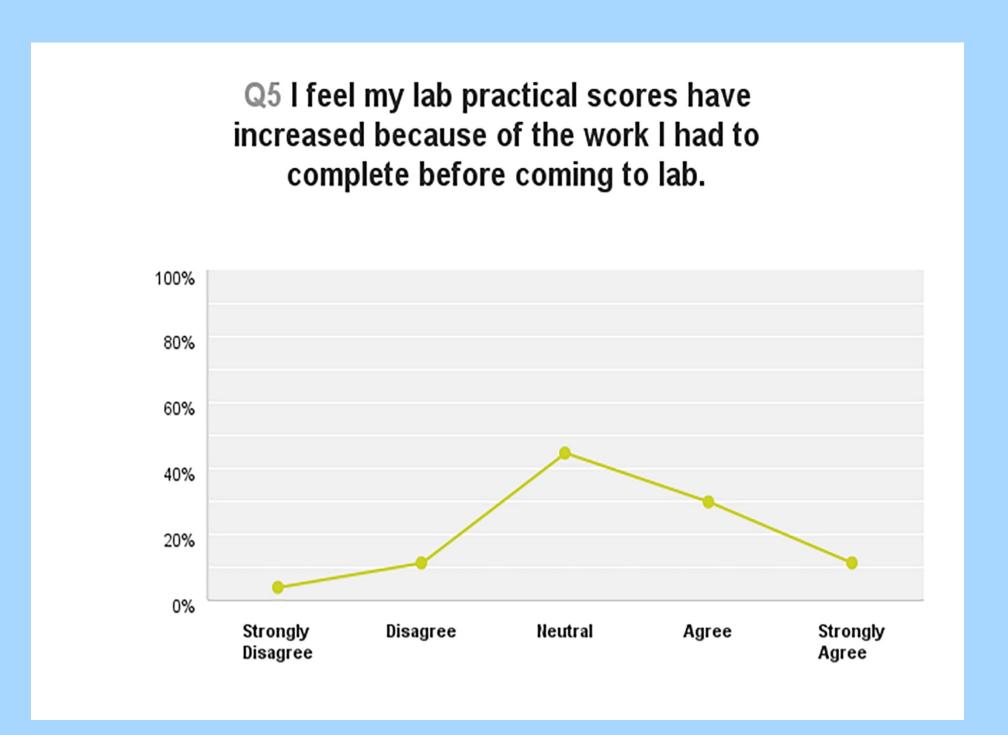


### Results

❖ 77% of students had a better experience in BIOL 121L because of pre-lab work as compared to other lab classes.



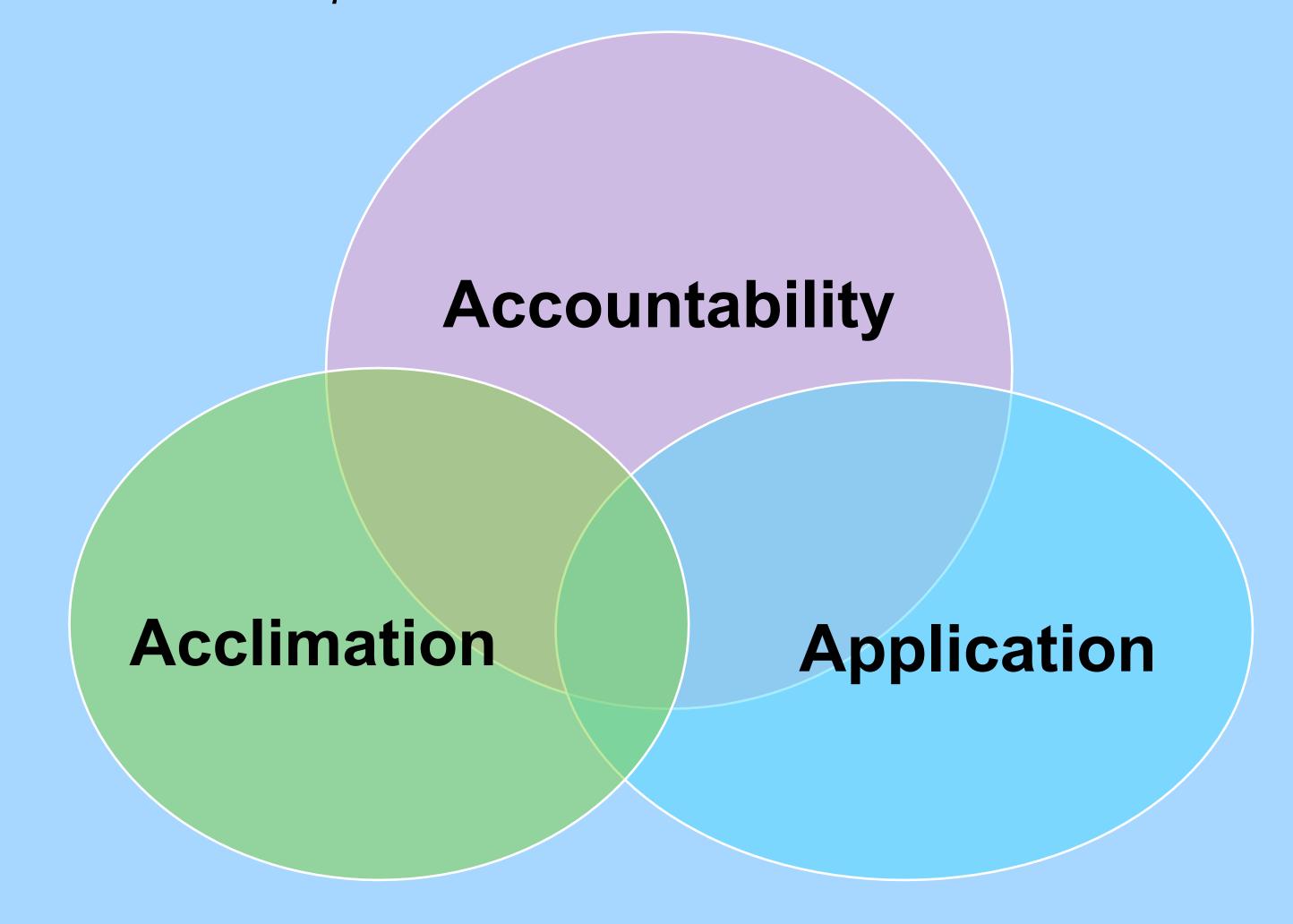
- ❖ 78% of students had more *confidence* in lab each week because of the pre-lab work and completing the 10 point quiz.
- ❖ 92% of students liked *knowing what was covered* before coming to lab.
- \* 81% of students felt they could *participate* more during lab.
- ❖ 38% of students felt their lab practical scores increased because of the work they had to complete before coming to lab.



### Betsy L. Diegel, EdD

# Qualitative Testimonials

- Liked knowing what we were doing ahead of time
- Hit the ground running- begin with learning not listening
- ❖ I wouldn't have pre-read otherwise, only would have done what was due that day.
- Great and very beneficial
- Watching the video set the tone of what was expected in class.
- Add cumulative questions to quiz each week
- Want this method again in future
- Instructor spoke too fast in some of the videos



## Implications for Future Practice

- 1. Set mandate to complete by certain day of the week.
- 2. Create questions that build from previous weeks' material.
- 3. Revise some of the videos to increase quality for the viewer.
- 4.Investigate the notion of increased student confidence being attributed to this approach.