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Technical Quality and Engagement in a Hybrid Communication Course

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Technical Quality and Engagement in a Hybrid Communication Course

Brenda L. Jones, Ph.D., MA, MS





Introduction

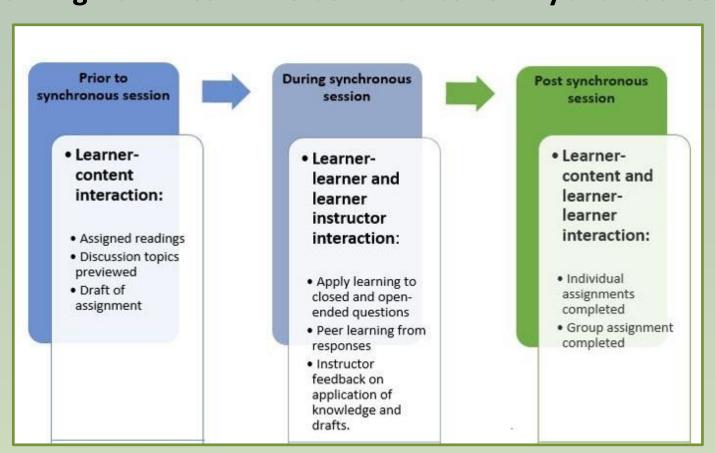
The goal of this project is to determine the most effective learning strategies and the impact of technical quality for Franklin University students in a hybrid or blended format group communication course.

- The hybrid course format balances asynchronous independent study work with weekly synchronous sessions.
- The weekly sessions combine face-to-face learners with online learners in an instructor led technologically-mediated synchronous class.
- The richness of the planned learning activities and the quality of the technology impact course quality and student engagement.

Elements of Effective Instruction in Blended Courses

- Courses are redesigned for the hybrid or blended instructional context (Dziuban, Hartman, & Moskal, 2004)
- Online and face-to-face learning activities are effectively integrated (Akyol, Garrison, & Ozden, 2009)
- Pedagogical decisions reflect a focus on student engagement (Glazer, 2012; Karal, Cebi, & Turgut, 2011; Collopy & Arnold, 2009; Dziuban, Hartman, & Moskal, 2004).

Learning Activities in the Communication Hybrid Course

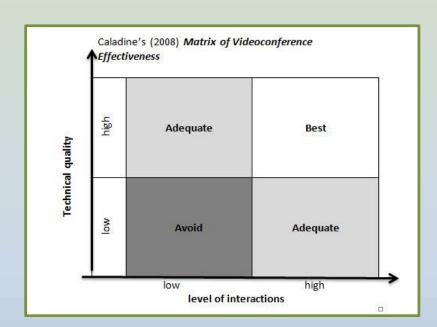


Hindrances to Effective Instruction in Hybrid Courses

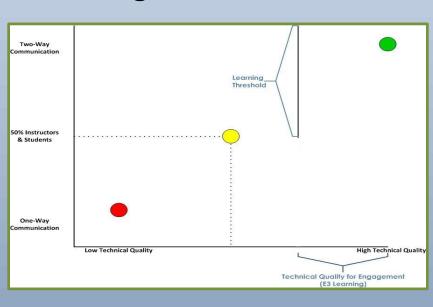
- Technology issues (Millichap & Vogt, 2012)
- Instructor resistance to instructional format (Glazer, 2012)
- Student resistance to responsibility for learning (Karal et al, 2011)

Models of the Hybrid Instructional Context

Caladine's Model of Video Conferencing

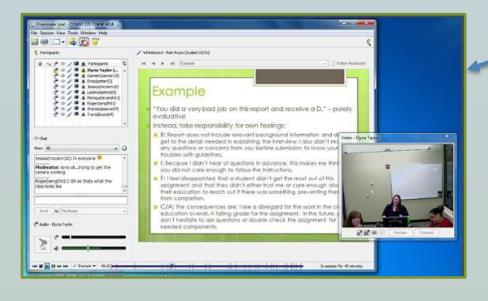


The Bell-Jones Learning Threshold for E³ Learning



Methods

Research Context



Online Student Viewpoint

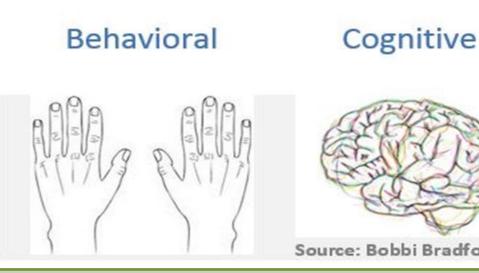
What is needed to achieve quality learning in a hybrid instructional context?

What channels do students choose to use? Are they drawn to richer media like video as well as audio?

Face-to-face Student Viewpoint



Student Engagement



Behavioral engagement is "any overt action a learner takes during an instructional episode" (Clark & Mayer, 2011, p. 16-17)

Psychological engagement is defined as "cognitive processing of content in ways that lead to acquisition of new knowledge and skills" (Clark & Mayer, 2011, p. 17).

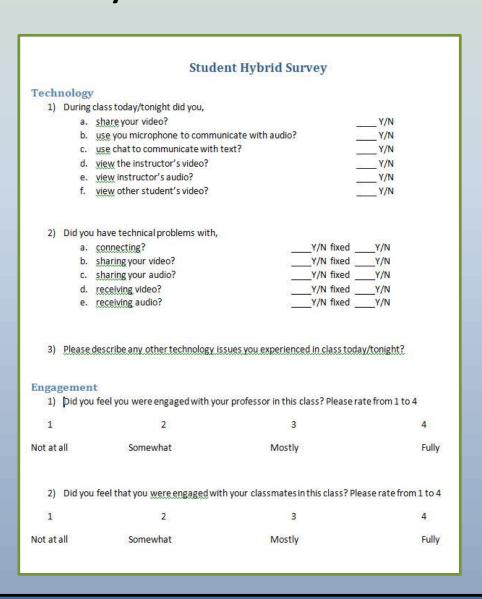
Research Questions

RQ1: Does video quality affect the level of learner engagement in a hybrid classroom?

RQ2: Does audio quality affect the level of learner engagement in a hybrid classroom?

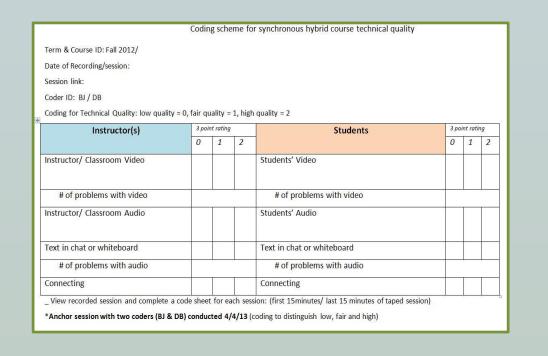
RQ 3: What channels do students use to engage with the instructor and other students in a real-time web-based class session?

Student Survey



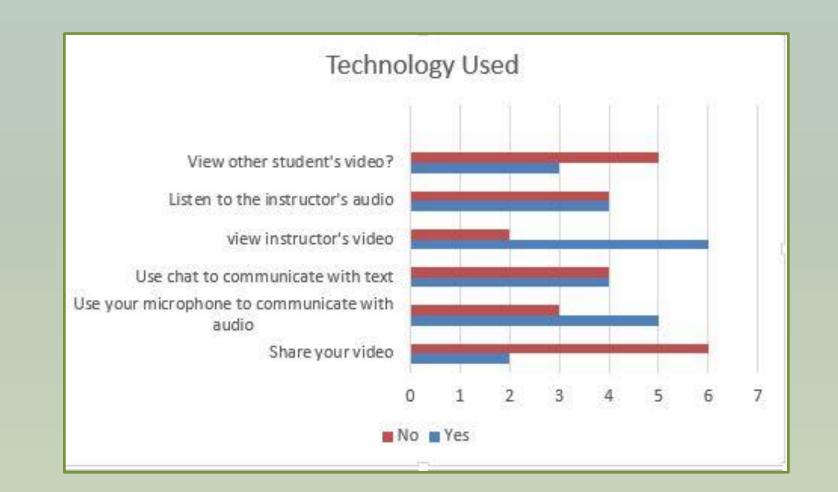
Methods Continued

Observational Coding of Technical Quality

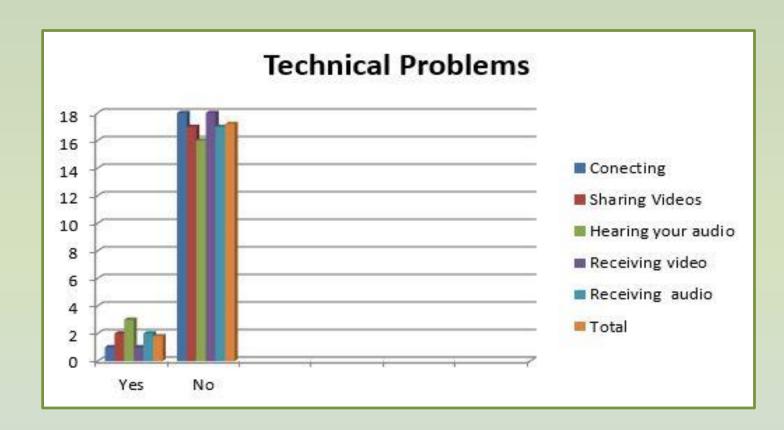


Results

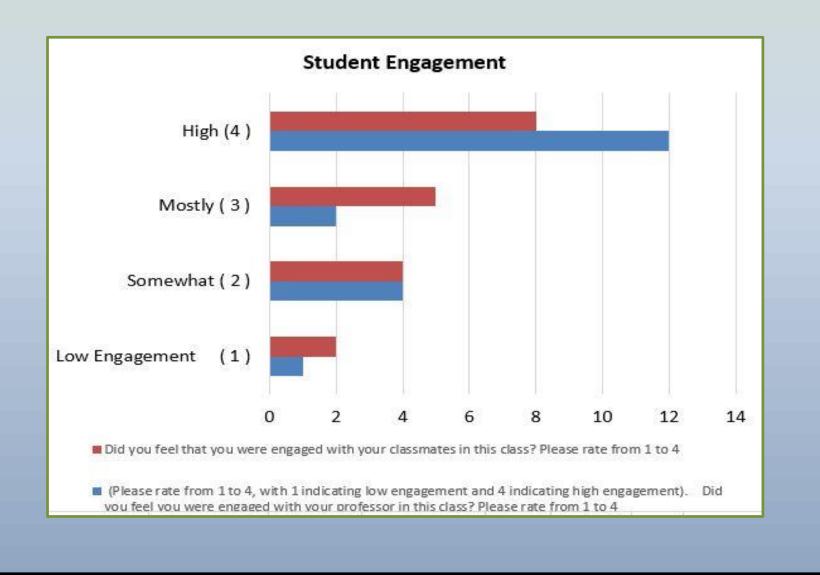
Technology Channels Used by Students



Technical Quality Experienced by Students

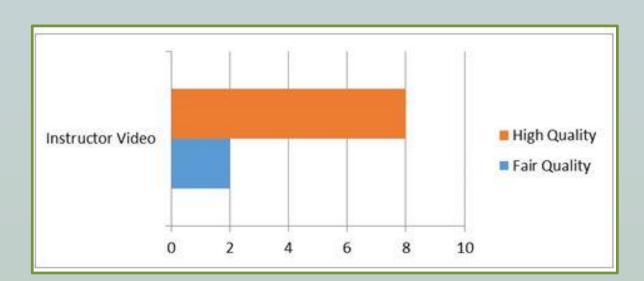


Level of Student Engagement

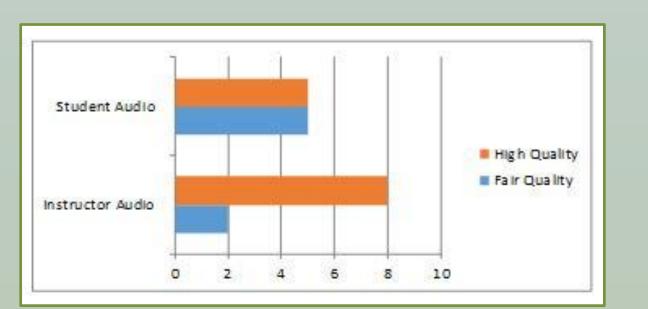


Results Continued

Observed Video Quality



Observed Audio Quality



Conclusions

- Technical quality was acceptable overall.
- Students choose to use multiple technology channels.
- Channels most frequently used were audio and chat (text).
- Students are "mostly" engaged with classmates.
- Students are "highly" engaged with instructors.
- Using technology to facilitate responses improves student engagement.

Future Research Directions

- The role of choice vs. prescribed means of interacting in synchronous sessions.
- Student satisfaction with the learning in the synchronous sessions as well as overall satisfaction with the course.
- Instructor skill with technology related to student satisfaction with hybrid format.

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