

Teaching Simulation Findings in Hybrid Classrooms at Indiana State

The following information was gathered as a result of teaching simulations that were conducted on campus. Multiple scenarios allowed for a group of faculty to learn more about teaching hybrid in the fall. If you desire more information, please contact Molly Hare, Director of the Faculty Center for Teaching Excellence.

It is strongly recommended that faculty test in person in your classrooms where you will teach. Technology settings and setup for the various components is key to success, and it is advisable to get a feel for that prior to day 1 of classes. OIT will have limited capacity to deal with everyone having a problem on the first couple of days of classes, so please begin testing it now.

*document cameras are **not** standard equipment and are **not** available in every classroom.

Instructional Behavior	Possible or Not Possible	Notes about Outcome	Simulation Location
Teaching with a face covering	Possible	Students can hear acceptably. Instructor easier to hear in large classroom with voice amplification.	CS lab, SH 102, S 18
Teaching with face shield	Possible	Students can hear. Sometimes shield would fog.	HH 115
Teaching with voice amplification	Possible	In large classroom, louder sound for students in back of room, but more muffled sound for students on Zoom. All other simulations showed hearing wasn't an issue with face covering/shield in typical-sized classrooms.	S 18
Teaching while moving around the room	Possible	Students could hear, but farther than 10 feet from podium, the sound weakens.	HH 115
Using Powerpoint with Zoom	Possible	Use Zoom Share Screen	CS lab, SH 102, S 18, HH 115
Using Powerpoint with Zoom and Zoom annotations	Possible	Must clear Annotations prior to advancing PPT slide, or Annotations stay on screen. Possible for students to annotate on screen also.	S 18, HH 115
Show a video using computer internet or laptop and Zoom	Possible	Be sure to toggle 2 buttons at bottom of screen for audio. One test had some lag and skipping for Zoom viewers.	CS lab, HH 115
Have students in class on Zoom without ear buds or headsets	Not Possible	Huge amounts of feedback. Very unpleasant.	CS lab, HH 115
Have students in class on Zoom with headsets/ear buds	Possible	Microphone discipline is key.	S 18, HH 115
Using laptop connected to podium and Zoom	Possible		CS lab, S 18

Writing on classroom whiteboard and visible on Zoom	Possible with document camera*	2 camera set up, podium or laptop and document camera*	CS lab
Writing on Zoom whiteboard	Possible	Select through Screen Share on Zoom	
Hand written notes or physical object visual aid	Possible	Must use document camera* for object.	S 18
In class student Q & A heard on Zoom	Not possible	Instructor needs to repeat student question or answer for those on Zoom to hear	SH 102, S 18, HH 115
On Zoom student Q & A	Possible	Student or instructor must unmute (depending on settings)	SH 102, S 18, HH 115
In class student on Zoom Q & A	Possible	Microphone discipline is critical to avoid feedback. Everyone else must be muted.	HH 115
Chat on Zoom	Possible	Challenging to manage instruction and chat. Consider an intermittent planned pause for instructor to check chat, having a TA or SI monitor chat. Or, don't encourage use of chat if it cannot be monitored. Fall back is to check a recording of class and respond after class to chat.	S 18, HH 115
Raise your hand feature on Zoom visible to Instructor	Not Possible	Classroom screens are located behind instructor so this Zoom feature isn't readily visible to instructor without student in class prompt or instructor directly looking at Zoom.	S 18, HH 115
In class instructor visible on Zoom screen (real time)	Not Possible	Podiums do not have a camera. If you desire Zoom students to see you teaching, use laptop and stay in front of it while teaching. (Select number of Distance Education classrooms allow this).	S 18, HH 115
In class instructor NOT visible on Zoom screen	Possible	Zoom students report class community without instructor visible is less engaging. Also, with in class students on camera, Zoom students feel more class community.	SH 102, S 18, HH 115
Using Breakout Rooms in Zoom for in class and Zoom people simultaneously to discuss	Possible	Microphone discipline is critical. People found this to be highly effective when using headset/ear buds. Not possible if students in class do not have headset/ear buds due to loud feedback. With microphone discipline, people engaged very well.	HH 115
Zoom poll and Zoom chat	Possible	Zoom poll set up showed in class on the screen. Zoom poll data will not show directly on Zoom recording but can be located elsewhere. Zoom chat possible, but very challenging to manage while teaching.	HH 115
Zoom recording	Possible	Consider saving to the cloud. Zoom recordings saved to local classroom podiums will be erased at end of class when computer is shut down.	S 18, HH 115

Student discussion in class, not on Zoom, and socially distanced	Possible	Results varied, but it was possible. Depends on number and volume.	SH 102, S 18, HH 115
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Classroom Scenarios Included in Simulations

Location	Seats available (by firecode)	In class people	Zoom people	Instructor	Teaching Behaviors and Tech Integration
Root Hall 017 (CS lab)	36	10	10	Jeff Kinne	Powerpoint, YouTube video, writing on classroom whiteboard (via lab doc camera*), lecture, student Q & A, laptop connected, classroom podium
Stalker Hall 102 (SH 102)	60	8 (1 of whom was also on Zoom in classroom)	1	Anne Foster	Powerpoint lecture, student Q & A, classroom podium
Science 18 (large classroom) (S 18)	151	8 (4 of whom were also on Zoom in classroom)	4	Jennifer Inlow	Powerpoint, Zoom with annotations on screen, lecture, student Q & A, document camera* to show handwritten calculation and a physical model (about the size of a coconut), laptop connected, voice amplifier
Holmstedt Hall 115 (HH 115)	63	9 (9 of whom were also on Zoom in classroom)	7	Molly Hare	Powerpoint, Zoom with annotations on screen, lecture, student Q & A, embedded YouTube video, Zoom Breakout Rooms, Zoom chat check, Zoom poll, classroom podium, personal Powerpoint remote

Lecture Format Options

Lecture Format	In person?	Zoom?	YuJa?
F2F	All	-	-
F2F + asynchronous	All	-	All
Hybrid	Some	Some	-
Hybrid + asynchronous	Some	Some	All
Online synchronous	-	All	-
Online synchronous + asynchronous	-	All	All
Asynchronous	-	-	All**

**not inclusive of all asynchronous methods

ISU recommends using Zoom for synchronous sessions and YuJa for asynchronous sessions and lecture captures.

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