

How to live-cast and record live in-person lectures

Reasons why:

1. This lowers the amount of student emails and students in office hours.
2. To provide students recordings they can view if they missed something in class or want to understand something better.
3. This allows students that are sick or had to miss class the capability to attend class virtually or learn the material at a later time.
4. They are beneficial to students and students like them! (see references at the end)

Hardware:

1. Microphone
 - i. example: [Amazon – USB clip on microphone w/ 6.5' cord ~\\$23](#)
2. Digital writing tool(s)
 - i. example: [Amazon – XP-Pen 10x6.25" drawing tablet ~\\$50](#)
 - b. If you have a touch screen device you can use a stylus and may possibly need a glove

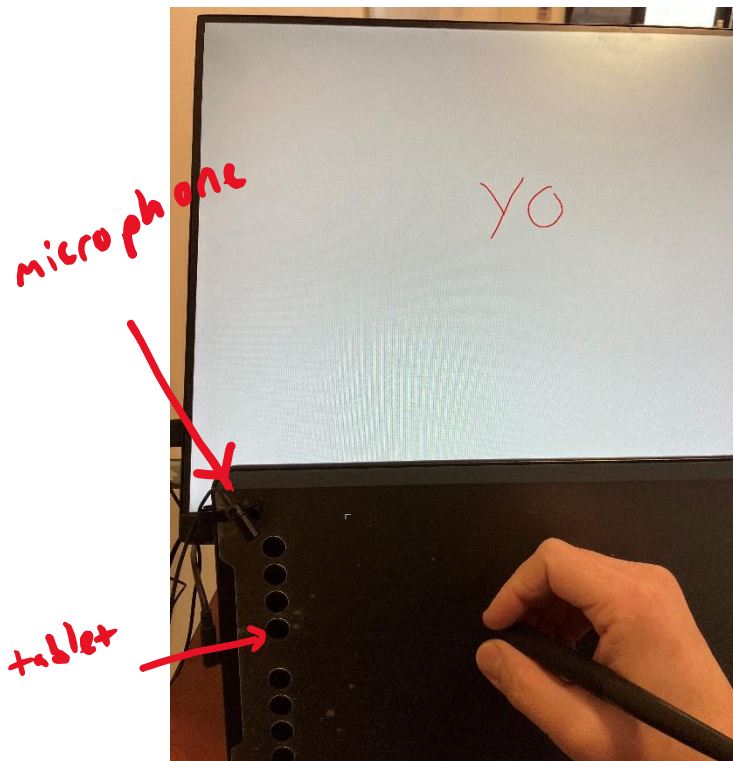
Software:

1. Video conferencing software (Zoom, Teams, etc)
2. Presentation software (PowerPoint, Slides, etc)
3. A place to post lecture links (Canvas, your own website, etc)

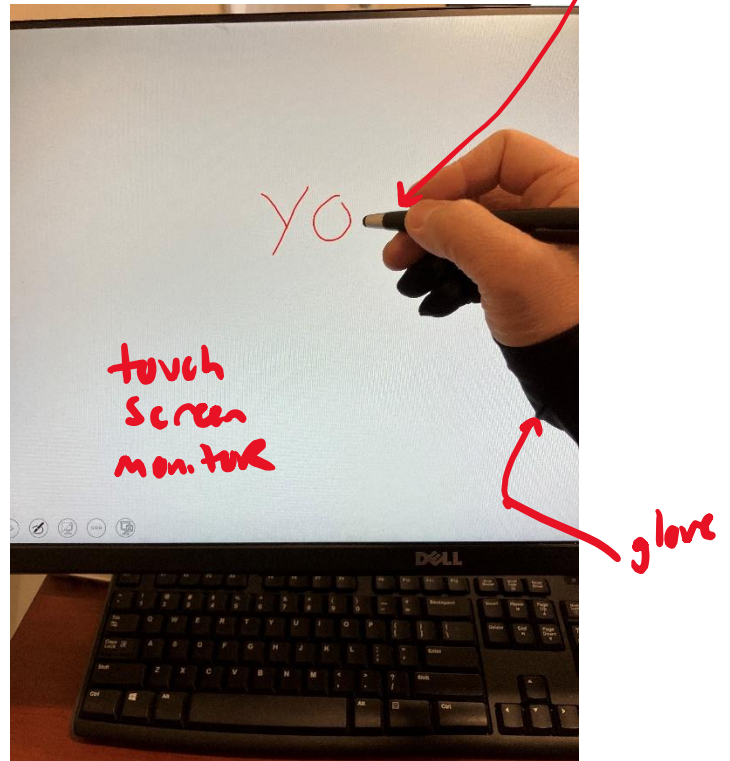
Notes:

1. Leave space on your slides that you can draw and annotate.
2. You can use blank slides just as you would a blank whiteboard. (for working out problems or drawing).
3. Zoom deletes recordings after a certain time but students can download them for later.

Writing tablet



Touch Screen and Stylus (and glove)



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Recordings are beneficial to students:

1. MacKay, Jill R D et al. "The Use of Lecture Recordings as Study Aids in a Professional Degree Program." *Journal of veterinary medical education* vol. 49,1 (2022): 80-89. doi:10.3138/jvme-2020-0067
 - <https://pubmed.ncbi.nlm.nih.gov/33929289/>
2. Topale, Luminica. "The strategic use of lecture recordings to facilitate an active and self-directed learning approach." *BMC medical education* vol. 16,1 201. 12 Aug. 2016, doi:10.1186/s12909-016-0723-0
 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4983083/>
3. Voelkel, Susanne et al. "Lecture capture affects student learning behaviour." *FEBS open bio* vol. 13,2 (2023): 217-232. doi:10.1002/2211-5463.13548
 - <https://pubmed.ncbi.nlm.nih.gov/36610003/>
4. Nelson, Leslie Susan et al. "The Impact of Lecture Capture in the Undergraduate Classroom: Nursing Student Voices." (2019).
 - https://sigma.nursingrepository.org/bitstream/handle/10755/17471/Nelson_97468_G04.pdf?sequence=1
5. Doggrell, Sheila Anne. "Quantitative study showing how and why students access lecture recordings, and of the association between accessing and academic outcomes, in a biochemistry course." *Biochemistry and molecular biology education : a bimonthly publication of the International Union of Biochemistry and Molecular Biology* vol. 49,3 (2021): 464-474. doi:10.1002/bmb.21502
 - <https://iubmb.onlinelibrary.wiley.com/doi/10.1002/bmb.21502>
6. Orellano, Carlos, and Cesar Carcamo. "Evaluating learning of medical students through recorded lectures in clinical courses." *Heliyon* vol. 7,7 e07473. 5 Jul. 2021, doi:10.1016/j.heliyon.2021.e07473
 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8353299/>