



University of Colorado
Boulder

Sustaining Instructional Practices in Challenging Times

Nancy Kress, Tim Weston, Tim Archie, Jenny Valadez Fraire & Sandra Laursen

University of Colorado Boulder



Overview

The Covid-19 pandemic created unprecedented disruptions to people's routines, work, and lives.

Durable change of instructional practices depends heavily on instructors' ability to sustain the use of new practices in challenging times.

Understanding **how instructors adapted to pandemic teaching conditions** provides insight into the durability of their use of evidence-based instructional practices during a challenging era

Research Questions

- 1) What instructional practices did instructors maintain, revert to, or attempt during this phase?
- 2) What technology and institutional supports did instructors find helpful for teaching online?
- 3) When instructors attempted new instructional practices out of necessity, what, if any, of those practices did they hope to retain for in-person, post-pandemic teaching?

Data Collection

When: Spring, summer, early fall 2020 online teaching phase of the pandemic

Who: Instructors who were already participating in professional development, number of respondents $n=130$

What: Quantitative: Multiple choice questions about *instructional practices used before and after the switch to online learning*, and

Qualitative: open response questions about *professional learning, technological support and new instructional strategies used online*

Open Response Key Takeaways

Technological Supports: Many people portrayed independence, self-sufficiency, or that they didn't need or didn't use technical support; many also said training and resources were unavailable, limited or insufficient.

Professional Learning: Frequently described as insufficient, limited or ineffective; approximately twice as many people said institutional support was available than technical support

Most common online instructional strategies that people anticipate continuing in person: flipped classes, video-recorded lectures

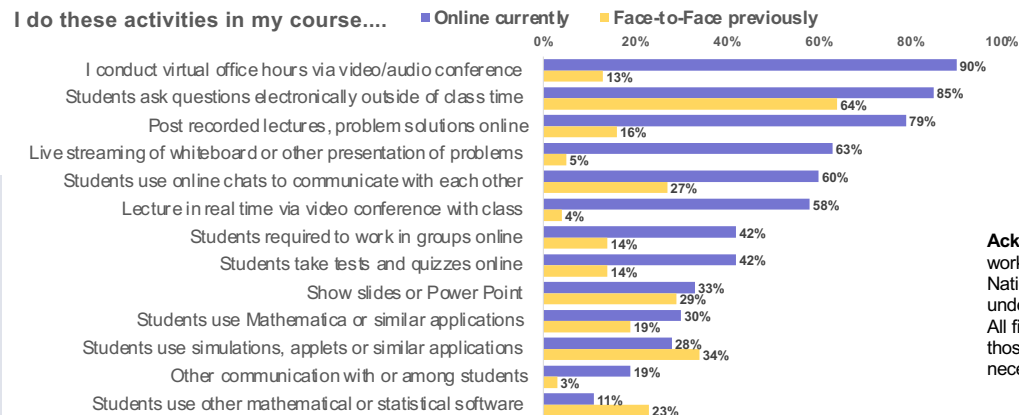
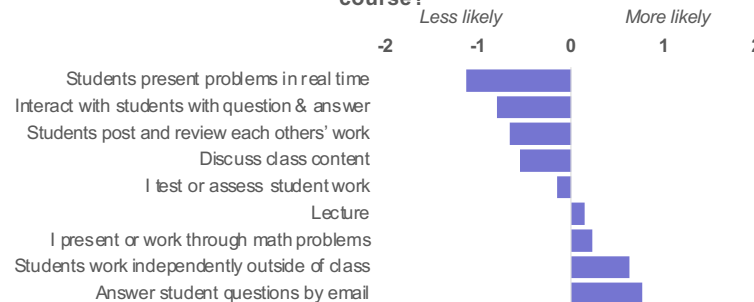


EXPLORING PROFESSIONAL DEVELOPMENT FOR EARLY-CAREER ACADEMICS



Shifts in Teaching Practices

Compared to your previous face-to-face classes, how would you estimate the amount of time you or your students spend doing the following in your online course?



Key Insights

RQs 1 and 3: Lecturing, posting video recorded lectures increased online;

and instructors predicted they would continue to provide video recorded lectures post covid

Quote: "I would like to see my lectures moving completely online (outside of class time) so that my class time can be focused on problem-solving and discussion of topics."

RQ 2: Many instructors described technological and institutional support as inadequate. Some claimed they didn't need technical supports.

Quote: "I didn't receive any technical support, but I also didn't ask."

Overall Observation: Findings align with Hora & Hunter (2016): planning by fine-tuning existing materials and consistency of bringing lecture notes and/or Powerpoint slides to class

Acknowledgment: This work was funded by the National Science Foundation under grant DUE-1821704. All findings and opinions are those of the authors and not necessarily of the NSF.