



# **CAMPOS & CAMPSSAH**

## **New Faculty Scholar Orientation**

### **Learning & Teaching Online**

**September 23rd, 2020**

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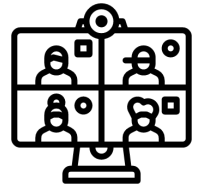
## Workshop Objectives

- Consider opportunities for equity and inclusion in online teaching.
- Review Data on Student Learning, Faculty Teaching experiences online.
- Evaluate five strategies for teaching and learning online.
- Identify tools to promote active learning.



## Workshop Norms

- Please have video on, if possible.
- Stay muted unless speaking.
- Place questions in “chat”.
- Be present, respectful, and curious.

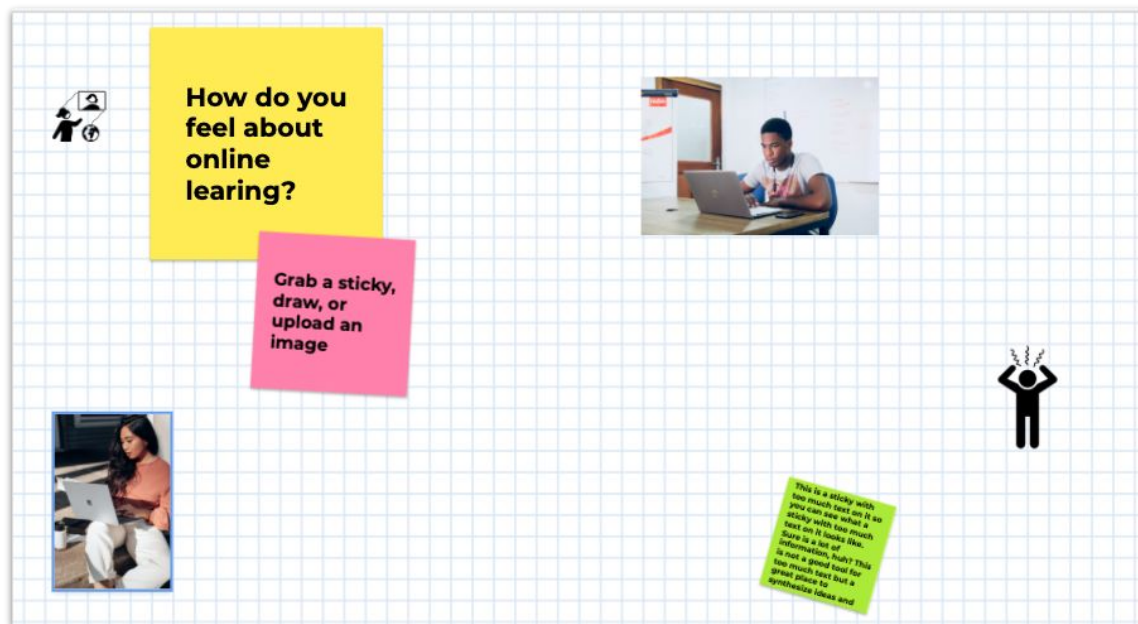




# Let's Jam(board)

How do you feel about online learning?

<http://bit.ly/CAMPJam>





# Educational Equity Defined

Educational equity means that each student receives what they need to develop to their full academic and social potential.



NATIONAL  
EQUITY  
PROJECT



## Educator Mindsets for Equity

**Navigating the chart:** The chart can be read from left to right. Each mindset has an orientation (common ideas or thought patterns), an explanation of the orientation (describing the reason behind the thought patterns), and a consequence that results from the mindset.

Mindset	Orientation	Explanation	Consequences
<b>EQUITY</b>	Structural injustices distort success	See society as benefiting some and disadvantaging others	Low academic performance analyzed through lens of societal inequities and individual needs
<b>EQUALITY</b>	Everyone has a chance	View societal systems as basically fair or just	Low academic performance explained with "blame the victim" approach
<b>ASSET</b>	Student Potential	Identify and build on students' strengths	Culturally diverse students receive challenging and meaningful curriculum
<b>DEFICIT</b>	Student limitations	Students framed by shortcomings relative to school standards	Culturally diverse students taught with less rigor and lower expectations
<b>AWARE</b>	Courageous conversations	Understand student background informs learning	Consider race and other demographics in instruction and decision making
<b>AVOIDANT</b>	Deny difference	Do not recognize role of student background	Ignore race and other demographics in instruction and decision making
<b>CONTEXT-CENTERED</b>	Look at lived realities	View academic success as product of totality of students' daily lives	Students' lives in local context taken into account
<b>CONTEXT-NEUTRAL</b>	Focus on classroom	View schools and classrooms as closed systems of learning	Students' everyday interactions outside of classroom ignored



# Educational Equity (& Empathy)

*Before we even think about a syllabus or videos or Zoom, think about what it means to be a student. Now.*

Adjust accordingly. *We need to be human first, professor second.*

## The Single Most Essential Requirement in Designing a Fall Online Course

By [Cathy Davidson](#)  
on May 11, 2020

Page Views: 52902

435

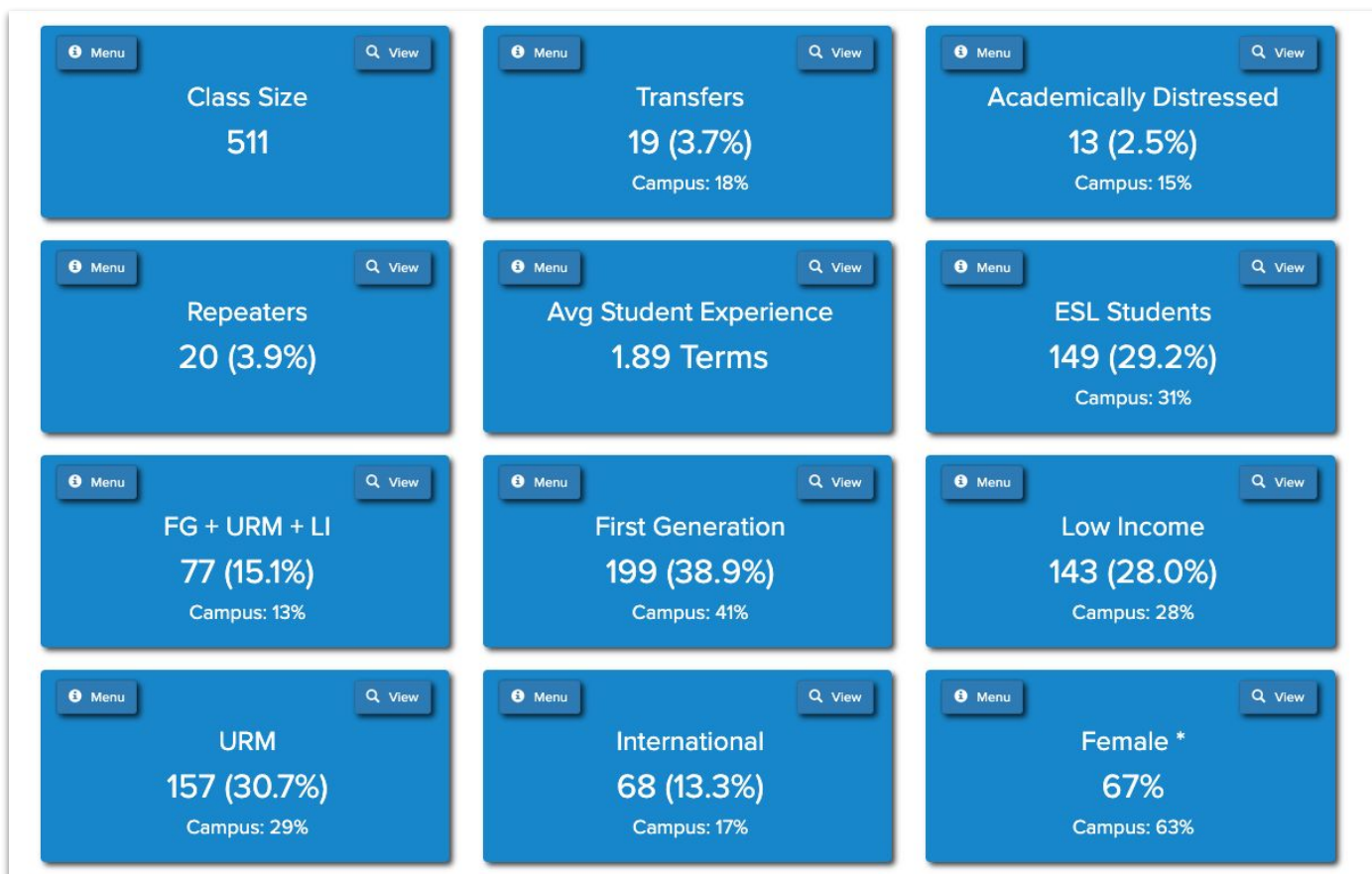






# Know Your Students

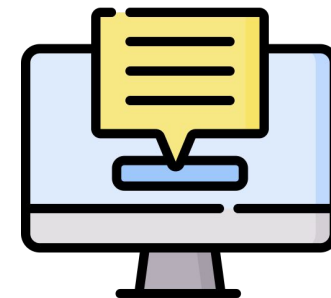
knowyourstudents.ucdavis.edu







# Dimensions of Online Readiness



1. Student perceptions of online learning
2. Student's online learning readiness/confidence
  - Computer/internet self-efficacy and access
3. Student self-direction and initiative
4. Student's desire/ability for online engagement



# The Remote Learning & Teaching Experience

## Insights from Spring 2020

### Remote Instruction:

Results from surveys on remote learning and teaching

UC Davis Center for Educational Effectiveness  
Marco Molinaro, Director  
Meryl Motika, Interim Associate Director  
for Educational Analytics and Assessment  
Tiffany Hodgens, Analyst  
Young-A Son, Analytics and Assessment Specialist

September 5, 2020

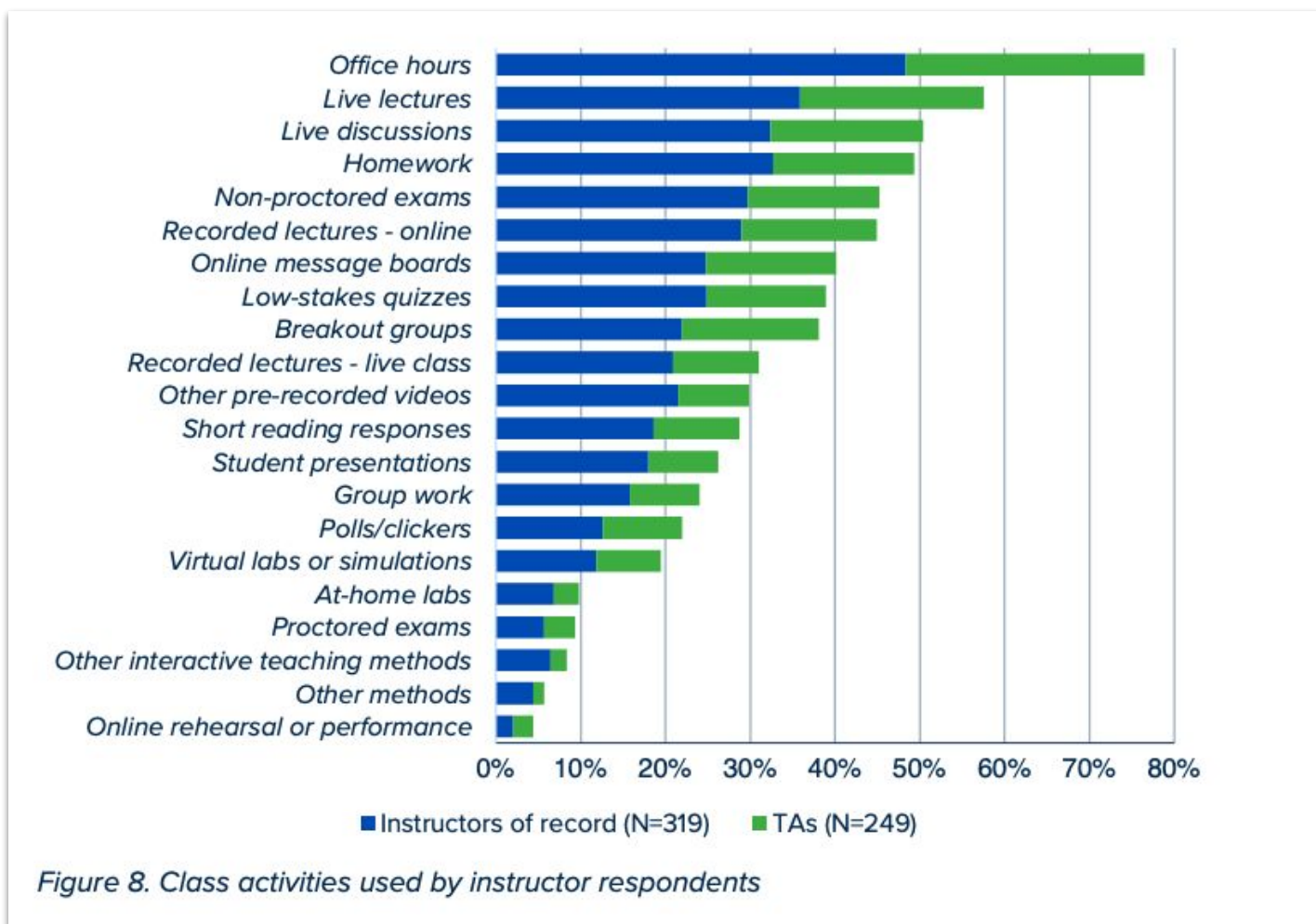


<http://bit.ly/CEERemoteInsights2020>





# The Remote Learning & Teaching Experience





# The Remote Learning & Teaching Experience

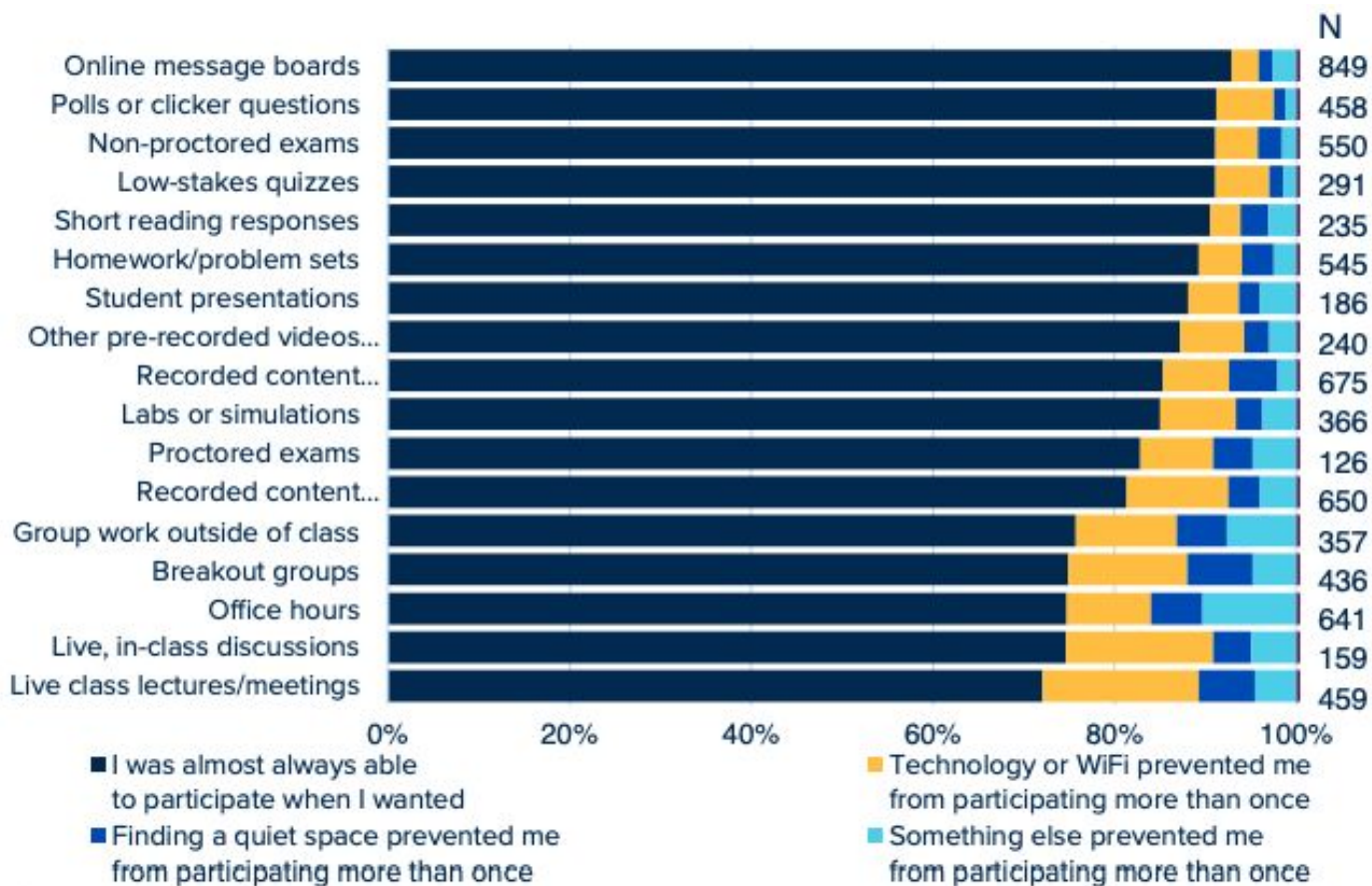


Figure 9. Participation barriers for students



# The Remote Learning & Teaching Experience

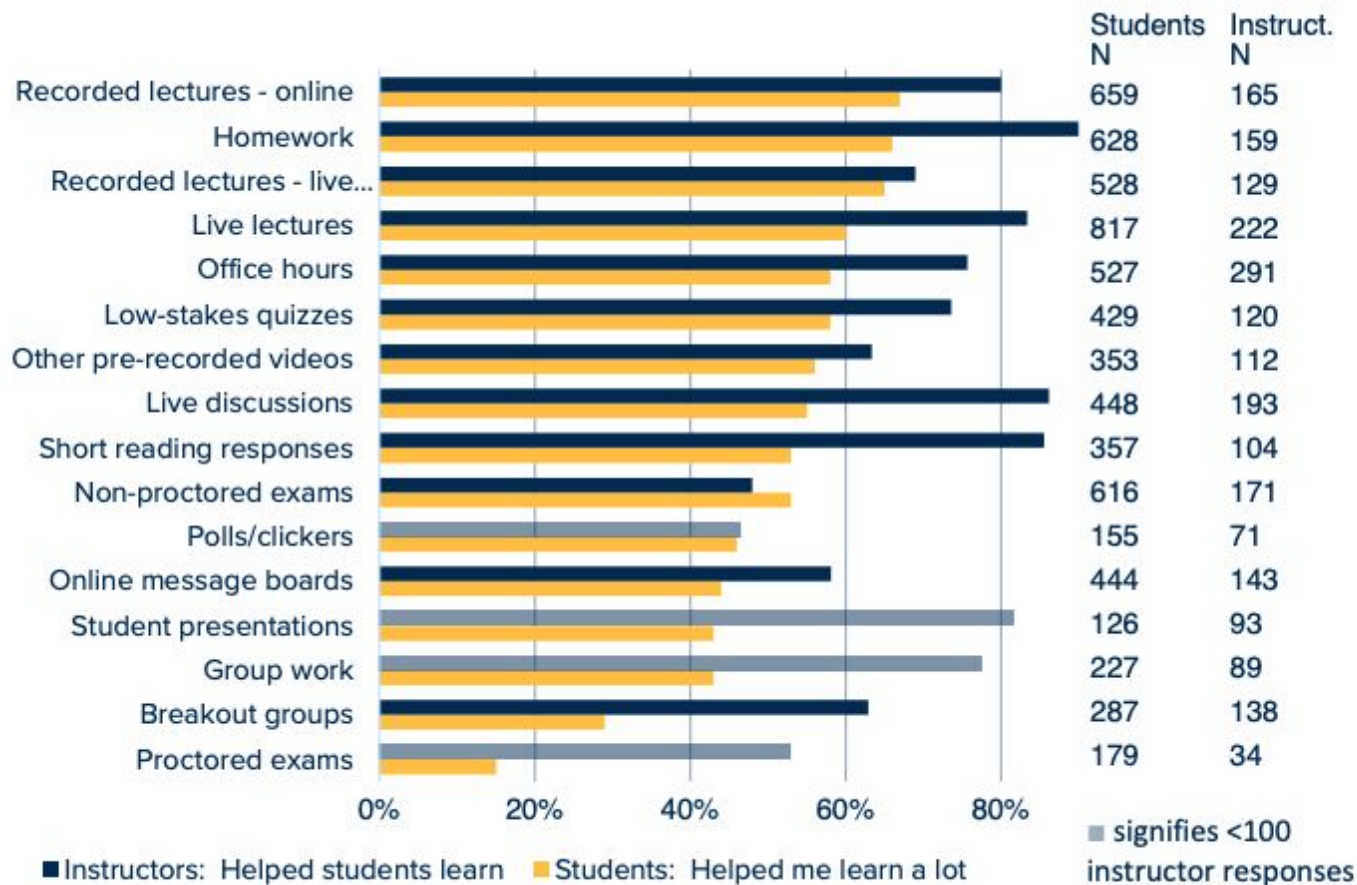


Figure 10. Activities and student learning





# The Remote Learning & Teaching Experience

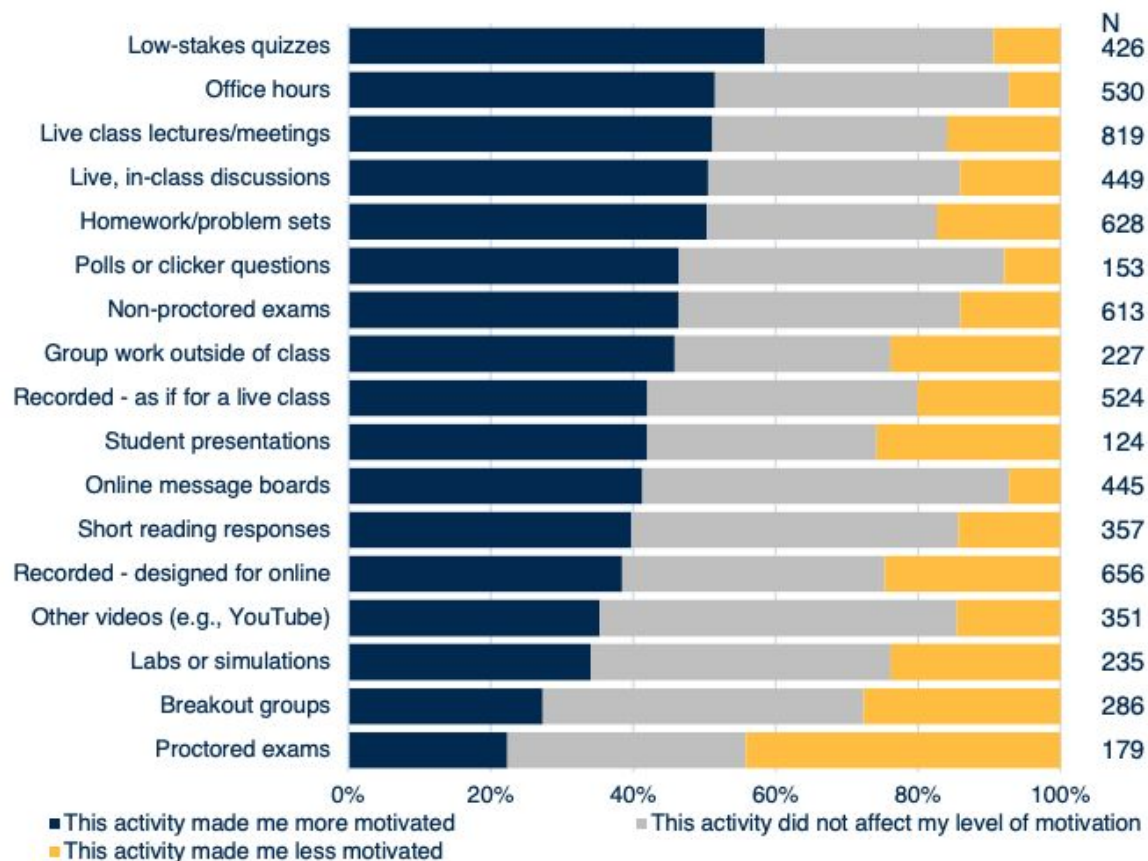


Figure 11. Activities and student motivation





# 5 Strategies for Remote Instruction\*

Strategy	Rationale	Tool(s)
Clear course <b>organization</b> and structure.	Clarity sets expectations and reduces cognitive load. Establish a communication policy to let students know how (eg email, Canvas) and how often (eg weekly).	Your syllabus and Canvas.  *Be sensitive to time zone since students are distributed across the globe.
Multiple, <b>low-stakes assessments</b> (e.g.: quizzes, homework, exams, lab reports).	Frequent, low stakes quizzes allows for multiple points of feedback and reduces the temptation to cheat.	Gradescope, Canvas (Quizzes, Rubrics, Speedgrader), PlayPosit, Google Docs, Turnitin.
<b>Office Hours</b> (faculty and TA).	Student/faculty (and TA) interaction remains vital to ensure students are connected. Consider time-shifted office hours for students outside of PDT.	Zoom, Microsoft Teams, phone.
<b>Synchronous, class interaction</b> aka <b>active learning</b> (live class, live 'lecture', discussions).	Participating in the learning together is still a valuable experience no matter the setting. Note: asynchronous content delivery (lecture) is recommended.	Zoom (chat, polls, yes/no, breakout rooms), Microsoft Teams.
<b>Meaningful activities.</b> (assignments/homework/labs)	Applying knowledge and collaboration skills are essential to the learning process.	Canvas (Assignments), Gradescope, Turnitin. Microsoft Teams. Google Jamboards.

\*Be mindful to time zone since students are distributed globally.



# Organization

<ul style="list-style-type: none"> <li>☰ ▾ Module 1: Topic/Name (Start date - end date)</li> <li>☰ 📄 Module 1 Overview</li> <li>☰ Tuesday Class Session - date</li> <li>☰ Prepare</li> <li>☰ 📄 Study Guide for Reading 1</li> <li>☰ 📄 Reading 1 (to prepare for Lecture Video 1)</li> <li>☰ Learn</li> <li>☰ 📄 Lecture Video/Zoom Session 1</li> <li>☰ 📄 Homework / Activity 1 (based on Lecture Video 1)</li> <li>☰ Apply</li> <li>☰ 📄 Homework / Activity 2 (extending or applying knowledge)</li> <li>☰ 📄 Homework / Activity 3 (extending or applying knowledge)</li> <li>☰ Additional Resources</li> </ul>	<ul style="list-style-type: none"> <li>☰ ▾ Week 9: Special Topics that May Save Your Life &amp; Nutrition and Athletic Performance (...)</li> <li>☰ SPECIAL TOPICS THAT MAY SAVE YOUR LIFE</li> <li>☰ 📄 Orientation to Special Topics that May Save Your Life</li> <li>☰ READ: Chapter 10 from Nutrition Basics for Better Health and Performance (Applegate, L., ED. 3, 2011, Kendall-Hunt)</li> <li>☰ WATCH</li> <li>☰ 📄 Video 3: Diet and Cancer (Total Time: 12:42)</li> <li>☰ 📄 Video 4: More on Diet and Cancer (Total Time: 13:46)</li> <li>☰ 📄 Video 5: Genetics and Health – Study of Nutrigenomics (Total Time: 8:02)</li> <li>☰ QUIZ: Chapter 10 Special Topics that May Save your Life</li> <li>☰ 🎯 Chapter 10 Quiz: Special Topics That May Save Your Life! <small>Dec 1, 2019   5 pts</small></li> <li>☰ NUTRITION AND ATHLETIC PERFORMANCE</li> <li>☰ 📄 Orientation to Nutrition and Athletic Performance</li> <li>☰ READ: Chapter 11 from Nutrition Basics for Better Health and Performance (Applegate, L., ED. 3, 2011, Kendall-Hunt)</li> </ul>
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# Organization

<https://bit.ly/KT-TEMPS>

Keep Teaching Quick Links >

HOME PLANNING TEACHING TESTING STUDENT RESOURCES

## Organize your course for remote instruction

Home > Organize your course for remote instruction

### Expanded guide: Organize your course for remote instruction

Organizing the various elements of your course provides a roadmap for students to follow throughout the quarter and allows them to focus their efforts on learning. These recommendations discuss ways to organize the various elements of your remote course.

Organize your course for remote instruction using these strategies:

- [Plan or revise your course organization](#)
- [Organize your course on Canvas](#)
- [Organize your live or asynchronous Zoom session](#)
- [Organize your Instructional Team](#)

This diamond icon ♦ in the text indicates that there is content in the right sidebar that relates to that particular strategy.

To **discuss your unique teaching and technology needs**, schedule a consultation with an ATS instructional designer at [instructionaldesign@ucdavis.edu](mailto:instructionaldesign@ucdavis.edu). For questions about **pedagogical and teaching strategies**, contact the Center for Educational Effectiveness: [cee@ucdavis.edu](mailto:cee@ucdavis.edu).

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### Plan or revise your course organization

♦ [Downloadable template course in Canvas](#)

- [Template 1: Two day Discussion](#)
- [Template 2: Two day Discussion](#)
- [Template 3: Welcome Module](#)
- [Template 4: Module 1 Overview](#)

UC DAVIS  
Center for Educational Effectiveness  
Office of Undergraduate Education

### MODULE 1 OVERVIEW (TEMPLATE)

This document provides you (the student) with an overview of Module 1. As you work through the Module, please follow the sequence given below, which is the same as that given on Canvas. This is your "roadmap" for the class so that you have a clear sense of the purpose and sequence for this module's tasks. It also provides specific instructions for any submissions you will need to make for this module.

#### Module 1 Learning Outcomes

In this module, you will learn to:

1. Instructor fills these in with the learning outcomes for the module
- 2.
- 3.

#### Tuesday Class Session DATE

#### Prepare

**Instructions:** Instructor fills this section in with a numbered list of instructions for the "Prepare" section. Begin with a sentence or two at the beginning of the instructions explaining to students the purpose, i.e., why this will help them with their learning. Include any tasks you want them to do in this section (e.g., take notes, complete the study guide, summarize/respond to the reading) as well instructions as to whether students will submit any materials and how.

#### Materials:

Study Guide for Reading 1  
Reading 1 (to prepare for Lecture Video 1)

#### Learn

**Instructions:** Instructor fills this section in with a numbered list of instructions for the "Learn" section. Begin with a sentence or two at the beginning of the instructions explaining to students the purpose, i.e., why this will help them with their learning. Include any tasks you want them to do in this section (e.g., take notes, complete the study guide, summarize/respond



# Organization

## ACCESSIBLE SYLLABUS

Accessible classroom resources promote student engagement and agency



**IMAGE**



**TEXT**



**RHETORIC**

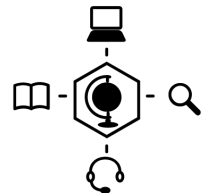


**POLICY**



# Low-stakes Assessment

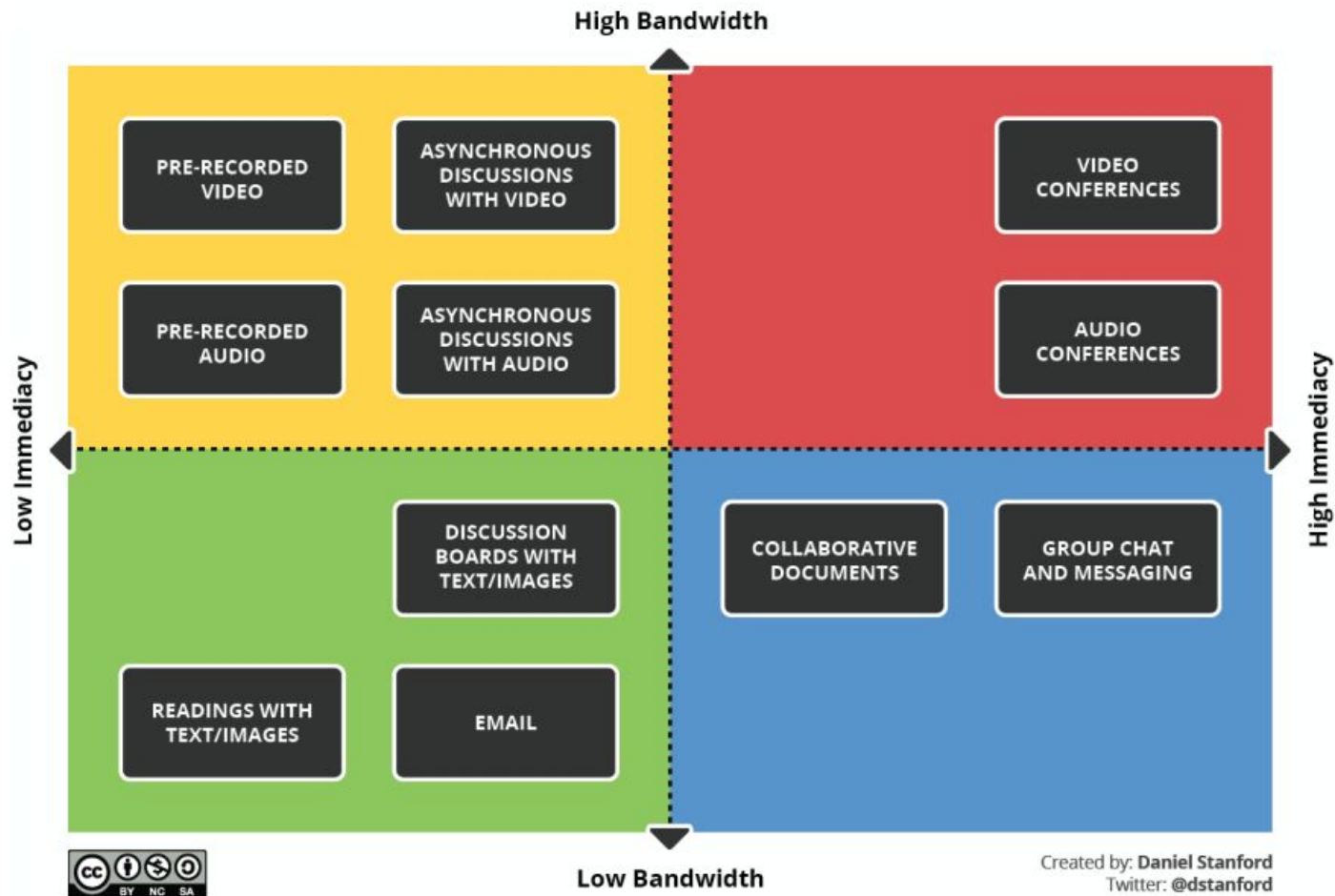
- Emphasizes learning as a process (rather than a product).
- Promotes self-regulation of learning.
- Offers multiple ways to demonstrate learning.
- Reduces anxiety and likelihood of misconduct.







# Synchronous, Class Interaction







# Low-stakes Assessment

## <http://bit.ly/KT-TESTS>

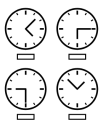
Type of assessment	Why it promotes academic integrity	How to implement
Frequent, low-stakes quizzes	<p>Because students are asked to take quizzes (or turn in short papers) frequently, each quiz (or short paper) is a <b>stakes typically means lower-stress; less inclination to rely on outside sources.</b></p> <p>To facilitate frequent, low-stakes quizzes Davis Canvas, instructors may build <a href="#">quiz</a> can be randomly assigned to individual st</p>	Because students are asked to take quizzes (or turn in short
Open book exam, untimed	<p>Homework - 20%</p> <p>PlayPosit Quizzes - 20%</p> <p>Reflection Assignment - 5%</p>	
Open book exam, timed	<p>Participation during Thursday Breakouts - 15%</p> <p>Self-Assessment (credit only) - 5%</p> <p>Midterm - 15%</p> <p>Final Exam - 20%</p>	
Two-part exam	<p>Ask students to write a reflection or discuss their learning process. For example, combine 1) low-stakes quizzes and a <a href="#">reflection</a> as an assessment, or 2) an open-book exam and a metacognition task (below) as an assessment.</p>	<p><a href="#">Quizzes Essay Question</a></p> <p><a href="#">Creating a Canvas Assignment for online submission of a document</a></p>

**Katerina Ziotopoulou (Civil & Environmental Engineering) revised her course learning outcomes and redistributed grade weights for remote instruction and student learning during the 2020 Spring term.**



# Office Hours

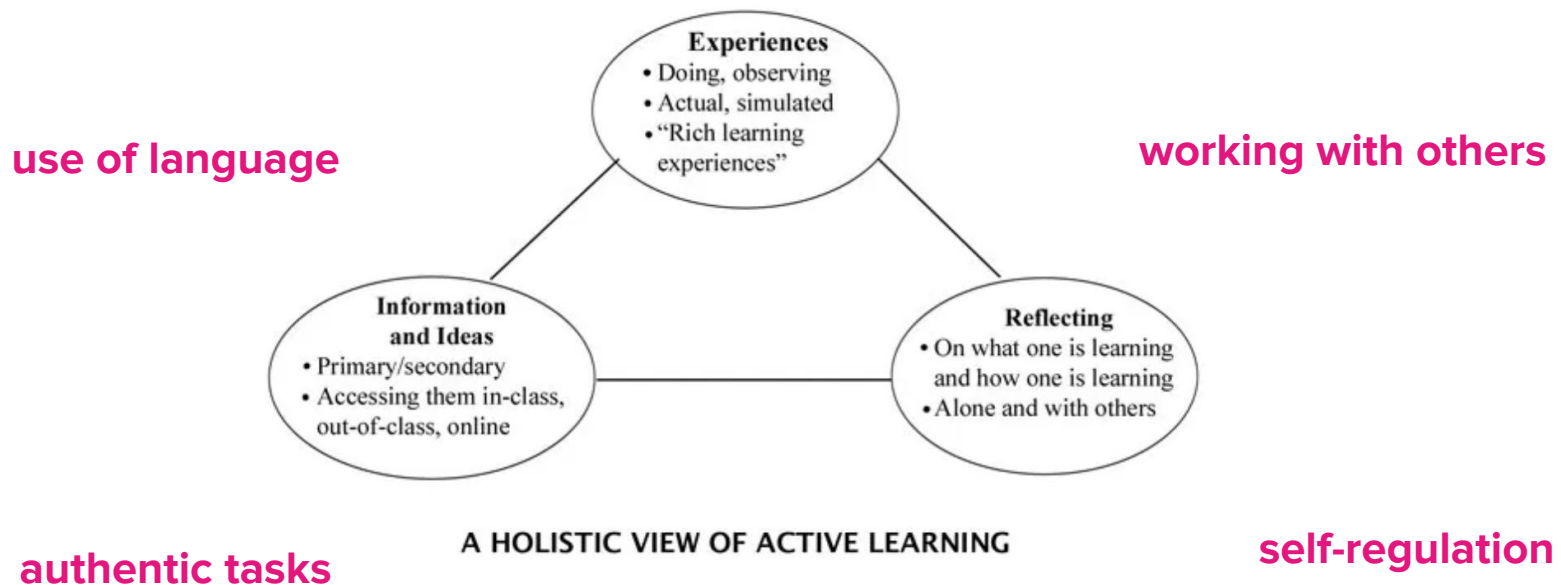
- Explain what office hours are for.
- Give sample reasons to attend office hours.
- “Rebrand” office hours
  - (coaching session, study hall, exam prep)
- Normalize attendance.
- Accommodate different time zones





# Defining Active Learning (AL)?

L. Dee Fink (2003) defines active learning as how students encounter **information and ideas**, how they engage with these ideas through **experiences**, and how they **reflect** on their learning through dialogue with themselves and others.





# Benefits of Active Learning for Faculty and Students

- The National Survey of Student Engagement (NSSE) has followed the engagement experiences of thousands of college students since 2000. Their consistent results show that hands-on, integrative, and collaborative active learning experiences lead **to high levels of student achievement and personal development** (Kuh et al., 2017).
- Owens et al. (2017) found that active learning can positively impact **student motivation**.
- Reimer et al. (2016) found active learning to be particularly beneficial to **first-generation college students** in STEM courses, boosting both retention and passing rates.
- Freeman et al. (2014) conducted a meta-analysis involving high enrollment lectures and found that active learning **increases student performance on exams** by an average of 6%, and decreased failure rates from 34% to 22%.



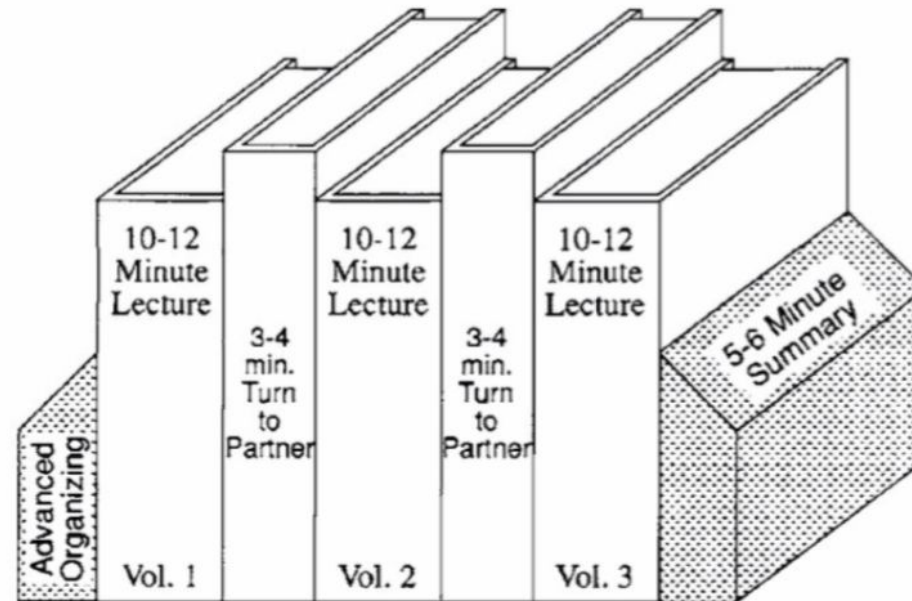
# Synchronous, Class Interaction

- Establish guidelines for in-class (synchronous) participation.
- Give interactive mini-lectures.
- Build opportunities for in-class interaction (active learning)
- Build opportunities for out-of-class collaborations





# Interactive/Mini Lecture Model



Adapted from: Smith, K. A., Sheppard, S. D., Johnson, D. W., & Johnson, R. T. (2005). Pedagogies of engagement: Classroom-based practices. *Journal of engineering education*, 94(1), 87-101.





# In-Class Interaction is Active Learning

## High Ease of Integration

Pause for Reflection

Muddiest Point

Think-Pair-Share

Minute Paper

Gallery Walk

Whole Class Discussion

Informal Groups

Buzz Groups

Case Studies

Interactive Lecture

Jigsaw Discussions

Simulations

Team-based Learning

Role Play

Experiential Learning

Service Learning

## Greater Complexity of Integration



# Exploration: Zoom Poll

What strategies do you use to support active learning in face-to-face or remote teaching classes?

Please take a moment to consider the Zoom poll and mark all the strategies that apply



# Active Learning at UC Davis: Read-Write

1. Link to the **handout** (UPDATE).  
Read the definitions of 6 active learning strategies.  
Then, choose **1 active learning strategy** that you've used, or have seen a colleague use, before and **1 active learning strategy** that you are curious about and would like to start using at UC Davis (3-4 minutes).
2. **Zoom chat:** when you are ready, post on the chat the **2 active learning strategies** that you chose.



# Active Learning can help your class become more inclusive!

- As a **platform** for students to collaborate, socialize, and communicate with other students in the class
- As a platform for **student engagement**
- You can **adapt** active learning to your remote or F2F instruction
- **Start small, make it simple:** begin with low stakes activities for you and your students so that everybody becomes comfortable with the tools





# Keep Teaching Website Active Learning

<https://keepteaching.ucdavis.edu/teach/encourage-active-learning-online>

## Encourage active learning online

Home > Teaching > Encourage active learning online

### Expanded guide: Encourage active learning online

*Interaction is a key component of active learning. These recommendations provide strategies for promoting active learning by encouraging students to engage in interactions both in and out of class.*

Encourage active learning online using these strategies:

- [Establish guidelines for in-class participation](#)
- [Give interactive lectures](#)
- [Build opportunities for in-class interaction](#)
- [Build opportunities for out-of-class collaborations](#)
- [References and resources](#)

This diamond icon ♦ in the text indicates that there is content in the right sidebar that relates to that particular strategy.

To **discuss your unique teaching and technology needs**, schedule a consultation with an ATS instructional designer at [instructionaldesign@ucdavis.edu](mailto:instructionaldesign@ucdavis.edu). For questions about **pedagogical and teaching strategies**, contact the Center for Educational Effectiveness: [cee@ucdavis.edu](mailto:cee@ucdavis.edu).

### Give interactive lectures

**4 ways to make synchronous chat effective and manageable:**

1. Set guidelines for chat interactions as you would for class discussion. Explain the process you will use for chat and how you would like students to interact, including expectations for respectful academic discourse.
2. Assign a chat manager/moderator. Ask a TA to monitor the chat and answer questions as they come in, or read questions to you during a dedicated question break so that you can answer them.
3. Plan for time to answer questions from the chat. If you have a TA, they could read out questions from the chat, or you can tell the class that you will be



# The Remote Learning & Teaching Experience

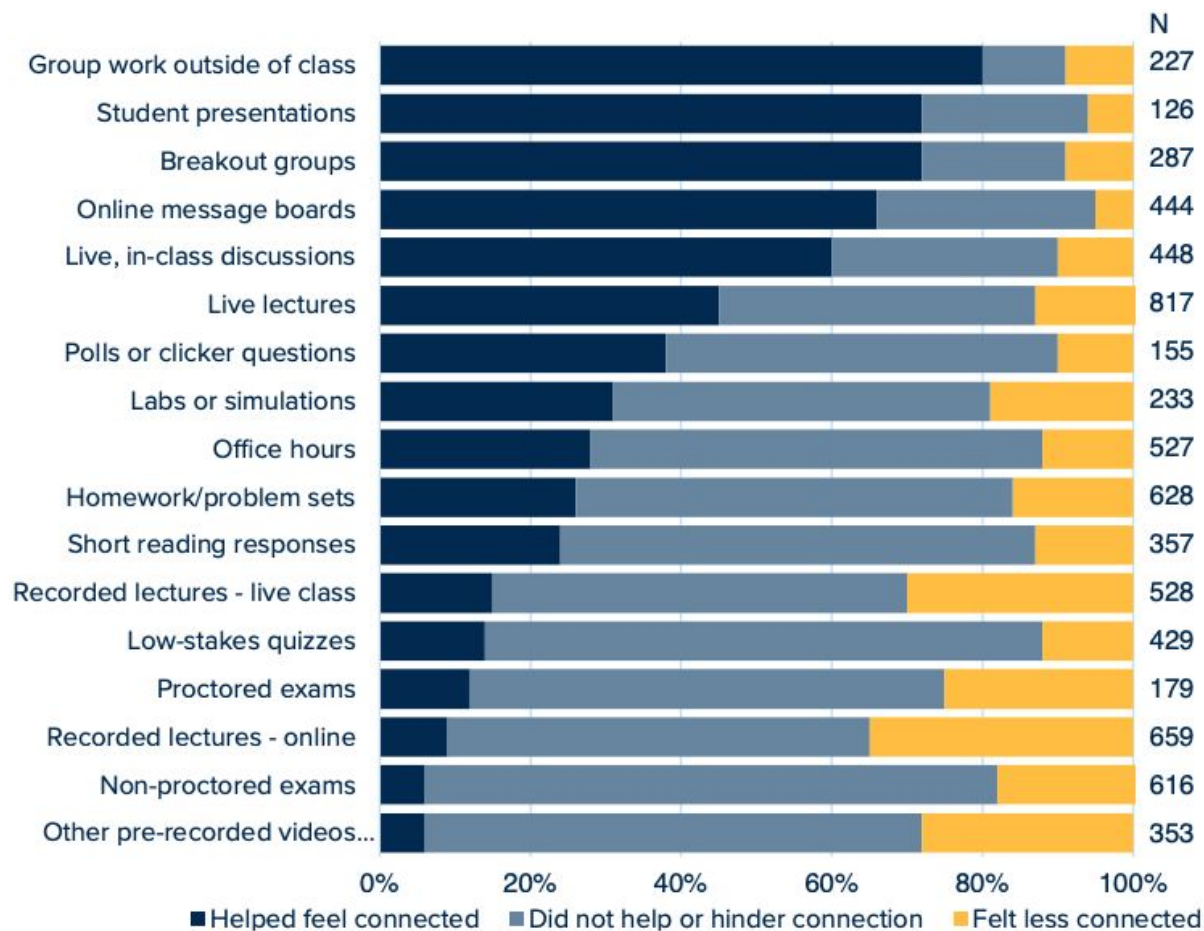
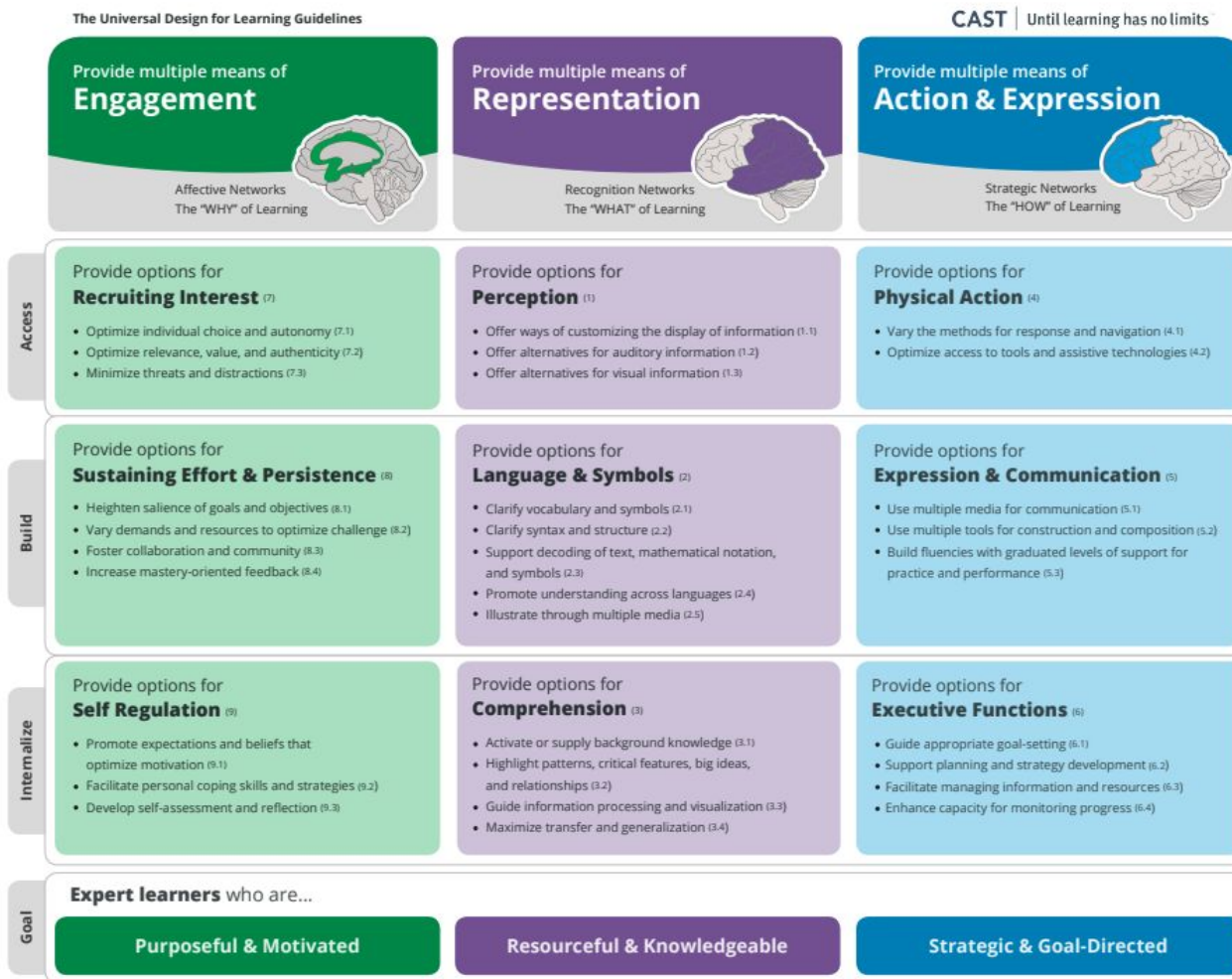


Figure 13. Activities and student-student connection





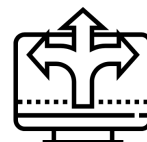
# Meaningful Activities





# Meaningful Activities

- Engage students in authentic tasks (simulations, labs)
- Give students agency (topics, add/drop scores)
- Have culturally relevancy (projects, portfolios, reflection)
- Involve timely feedback





# References

Center for Educational Effectiveness [CEE]. (2018). Activating your Lecture Series. Just-in-Time Teaching Resources. Retrieved from <https://cee.ucdavis.edu/resources/jitt/activating-your-lecture-series>

Center for Educational Effectiveness [CEE]. (2018). Active Learning Classroom Series. Just-in-Time Teaching Resources. Retrieved from <https://cee.ucdavis.edu/resources/jitt/active-learning-classrooms>

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Fink, D. L. (2003). A self-directed guide to designing courses for significant learning. San Francisco: Jossey-Bass. Retrieved from <https://www.deefinkandassociates.com/GuidetoCourseDesignAug05.pdf>

Freeman, S., Eddy, S. L., McDonough, M., Smith, M. K., Okoroafor, N., Jordt, H., & Wenderoth, M. P. (2014). Active learning increases student performance in science, engineering, and mathematics. *Proceedings of the National Academy of Sciences*, 111(23), 8410–8415.

Gray, K., Steer, D., McConnell, D., & Owens, K. (2010). Using a student-manipulated model to enhance student learning in a large lecture class. *Journal of College Science Teaching*, 40(1), 86-95.

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Owens, D., Sadler, T., Barlow, A., & Smith-Walters, C. (2017). Student motivation from and resistance to active learning rooted in essential science practices. *Research in Science Education*. Retrieved from <https://doi.org/10.1007/s11165-017-9688-1>

Reimer, L. C., Schenke, K., Nguyen, T., O'dowd, D. K., Domina, T., & Warschauer, M. (2016). Evaluating promising practices in undergraduate STEM lecture courses. *RSF: The Russell Sage Foundation Journal of the Social Sciences*, 2( 1), 212-233.

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# Motivation is central to learning

## > **Motivated students learn better.**

*“Because intrinsic motivation results in high-quality learning and creativity, it is especially important to detail the factors and forces that engender versus undermine it.” (Ryan & Deci, 2000:55).*

## > **Faculty can influence motivation.**

*“...Intrinsic motivation [is] significantly and positively correlated with several aspects of student-faculty interactions” (e.g., approachability, accessibility, respect, caring and connectedness). (Komarraju, Musulkin and Bhattacharya, 2010: 338).*



# Additional Engagement Strategies

## **High value / low efficacy / supportive environment**

- Streamline the organization of your Canvas site – make it uniform across weeks or units so it’s easy to navigate.
- Provide a course “roadmap” or checklist of what students need to do each week posted at the top of each module.
- Do low-stress, community-building icebreakers in the first few classes; suggest students exchange emails with another student to have at least one class contact.
- Post links to campus resources for well-being on Canvas
- Have informal live office hours where students can just “pop in.” Consider a scheduled “check-in” to meet with each student once during the quarter if you have a small class.



# Meaningful Activities

<http://bit.ly/CAMPHandout1>

## Activity 2: Additional strategies for increasing engagement

Many of the strategies used in face-to-face teaching also apply to remote teaching. This list presents some strategies for both modalities. Read the list below. Assess each strategy for its relevance to your classroom. Check the "Use" column if it is a strategy **you already use**. Check the "Interested" column if it is a strategy **you are interested in using**, and check the "More info" column if it is a strategy **you would like to get more information on** before using it.

Resource developed by Patricia Turner, PhD., Education Specialist at the Center for Educational Effectiveness.

Lehman and Conceição, 2013

Strategies specific to remote instruction that build positive expectancies	Use	Interested	More info
1. Use Zoom screen share to go over the syllabus, orient students to course and set expectations during the first live session			
2. Use a scavenger hunt for students to navigate the online course during an orientation activity			
3. Distribute handouts on effective learning skills, time management, and prioritizing tasks for remote learning			
4. Create a checklist of specific tasks students need to accomplish during each Canvas module and post it each week			
5. Ask students to create a remote learning study plan for the course (e.g., do the readings on Mondays, review readings and post responses on Tuesdays, review lecture after class on Wednesdays etc.)			
6. Set regular (e.g., the same each week) deadlines and milestones for modules/units to keep students motivated and engaged			
7. Monitor students' participation through learning analytics during the first weeks of the course to verify if students are progressing effectively/efficiently			





# Academic Technology Services Top 10



## TOP 10 SERVICES

### Educational Technology

Academic Technology Services offers a range of services to help faculty teach, create, research, and work with peers. To learn more about these featured services, use the contact information listed with each item below, or email [ats@ucdavis.edu](mailto:ats@ucdavis.edu).



**UC Davis Canvas** is the Learning Management System (LMS) of UC Davis. Found at [canvas.ucdavis.edu](https://canvas.ucdavis.edu), UC Davis Canvas provides a home for classes taught at UC Davis. For answers to UC Davis Canvas questions, email [ats@ucdavis.edu](mailto:ats@ucdavis.edu).



**AggieVideo** uses **Kaltura**, a YouTube-like video streaming and management portal that assists faculty with creating, uploading, editing, and managing video content. For more information, contact [aggievideo@ucdavis.edu](mailto:aggievideo@ucdavis.edu).



**Faculty Forums, including DOLCE: Discussing Online Learning and Collaborative Education** ATIS Faculty Forums, including DOLCE: Discussing Online Learning and Collaborative Education, meet every first and third Friday of the month at noon via Zoom. Hear presentations from faculty members about their experiences implementing innovative uses of educational technology. For more information, contact Dr. Andy Jones at [ajones@ucdavis.edu](mailto:ajones@ucdavis.edu).



The **ATIS Instructional Design** team partners with faculty to analyze and find solutions to current teaching, learning, and research challenges. Working at the course and campus levels, they bridge evidence-based discoveries from the learning sciences with appropriate technologies to inspire and inform education innovation. For more information, contact [instructionaldesign@ucdavis.edu](mailto:instructionaldesign@ucdavis.edu).



**The Wheel** – For more information about use of instructional technology, visit the UC Davis instructional technology blog, *The Wheel*, at [wheel.ucdavis.edu](https://wheel.ucdavis.edu). To propose or write stories for *The Wheel*, contact Dr. Andy Jones at [ajones@ucdavis.edu](mailto:ajones@ucdavis.edu). Also, follow us on Twitter @ucdaviswheel.



**Lecture Capture** – Limited primarily to Glett Hall during the COVID-19 era, upon request, classroom-based lecture recording is available to automatically capture audio, video, and on-screen content during faculty lectures. For more information, contact [lecturecapture@ucdavis.edu](mailto:lecturecapture@ucdavis.edu).



**Multimedia / Graphics** – We can assist you with illustration, graphic design, and animation. Services include icon development, graphics, medical illustration, advanced multimedia, conference posters, PowerPoint development, cartoons, brochures, and 2D animation to help clarify your message to your specific audience. For more information, contact [abgraphics@ucdavis.edu](mailto:abgraphics@ucdavis.edu).



**Clickers**, also known as personal response systems, are used at UC Davis to stimulate classroom participation and collaboration, especially in large classes where verifying students' understanding of presented concepts can be challenging. For more information about iClickers, the supported standard at UC Davis, please contact Fernando Socorro at [fsocorro@ucdavis.edu](mailto:fsocorro@ucdavis.edu).



The **Keep Teaching website** directs UC Davis faculty to resources for remote teaching and learning, focusing on remote teaching preparation, remote instruction strategies and tools, assessment alternatives to exams, and student resources. Please visit this new resource at <https://keep Teaching.ucdavis.edu>.



**Live Webinars** for UC Davis faculty and instructional teams to support remote instruction and teaching with technologies. Topics include Zoom for teaching and learning, designing remote lessons in Canvas, and using AggieVideo for teaching. Register for upcoming webinars and view recordings of past events on [Keep Teaching](https://keep Teaching.ucdavis.edu/teach/online-webinars) <https://keep Teaching.ucdavis.edu/teach/online-webinars>.



# References

## Motivation

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## Sessions Feedback

Your feedback is important to me. Please take a few minutes to complete evaluations for this session.

**<https://tinyurl.com/CEESummer2-FAC13>**

