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### CENTER FOR EDUCATIONAL EFFECTIVENESS

Office of Undergraduate Education

### Welcome! New Faculty Workshop

September 17, 2024 Michael Bradford, MFA Vice Provost and Dean of Undergraduate Education Professor of Dramatic Arts Office of Undergraduate Education <u>mlbradford@ucdavis.edu</u>

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Office of Undergraduate Education

### Teaching the UC Davis Student: Knowing Our Students to Support Their Success

September 17, 2024 Kem Saichaie, PhD Executive Director Center for Educational Effectiveness Office of Undergraduate Education kemsaichaie@ucdavis.edu





## **Overview**

- Reflect on our learning experiences.
- Introduce the UC Davis Student Population.
- Introduce the Center for Educational Effectiveness.
- Preview resources and tools to support your teaching.
- Introduce the SparkSessions.





# Reflect



# Who was an influential educator in your life?

How did she/he/they make a difference in your learning experience?



### **Introduction: The UC Davis Student Population**

Year: 2023 Campus: Davis Subcampus: None Level: Undergraduate Program: All

#### Enrollments: 31,797



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#### International Student Countries of Citizenship

	Studen	Percent
China	3,044	76%
India	311	8%
South Korea	116	3%
Taiwan	106	3%
Indonesia	61	2%
Saudi Arabia	42	1%
Japan	41	1%
Vietnam	40	1%
Canada	37	1%
Singapore	15	0%
Thailand	14	0%

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Year: 2023 Campus: Davis Subcampus: None Level: Undergraduate Program: All

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#### Introduction: The UC Davis Student Population (Percentage of First Gen Students)

#### UC first-generation undergraduate fall enrollment



UC systemwide undergraduate fall enrollment, 2014 - 2023

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Source: https://www.universityofcalifornia.edu/about-us/information-center/first-generation-collegestudents

### Introduction: The UC Davis Student Population (First Gen Success Story)



I am the oldest and the **first to attend college** in hopes of **being a role model** for my younger siblings. I was **encouraged to go to college by my middle school teachers and my dad**, who told me to aim higher and never give up. Because of them, college was something I knew I wanted, and I got it. And **I never gave up on school**, even in those moments when it got tough and I was worried about failing.

Paula Soto Psychology and Chicanx Studies



### Introduction: The UC Davis Student Population (Top 10 Majors as of 2023-2024)

Change in Largest Undergraduate Majors Over Time (demographic chosen is All Undergraduates)



1. Psychology

- 2. Biological Sciences
- 3. Neurology, Physiology, & Behavior
- 4. Animal Sciences
- 5. Managerial Economics
- 6. Economics
- 7. Computer Sciences
- 8. Biochemistry & Molecular Biology
- 9. Communications
- 10. Political Science

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### Introduction: Center for Educational Effectiveness (CEE)

We promote and support effective learning for all students at UC Davis.







### cee.ucdavis.edu

### Introduction: Center for Educational Effectiveness (CEE)



### CEE's Approach

- <u>R</u>esearch-based
- Equity-focused
- <u>A</u>sset-oriented
- Learner-centered



### Engagement opportunities offered by CEE



#### Learning + Teaching

Learner-centered, evidence-based, equity-focused instructional support for the UC Davis teaching community. Consultations on a range to teaching topics.



#### **Educational Analytics**

Data analysis and visualization to support educational effectiveness and development. Consultations on a range of learning analytics topics and tools.



#### **Student Learning Outcomes Assessment**

The process of learning outcomes assessment invites inquiry about our goals for student learning, and whether they are measurable, aspirational, and also achievable. Consultations on a range of assessment topics.





# **Teaching Resources for TAs & Postdocs**







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#### **Teaching Assistant Consultation Program**

Facilitates professional development programming for graduate student instructors and postdoctoral scholars. TACs provide consultations and workshops all year.

#### **Graduate Teaching Community**

The GTC is a collaborative, interdisciplinary group of graduate students and postdoctoral scholars who come together on a weekly basis to explore effective teaching practices. New topics are selected on a quarterly basis.

#### Self-Paced Courses and Modules

Provide an overview of what a teaching statement and diversity statement entail, strategies that candidates can use to write compelling statements, and criteria that can be used to assess these documents.



### Introduction: Center for Educational Effectiveness (CEE)

# Just Getting Started?



### Looking to Take a Deeper Dive?







### Just-In-Time Teaching (JITT) Resources



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#### Topics Include:

- Anti-Racist Teaching
- Active Learning
- Equitable Syllabus Design
- Educational Technology
- First-Generation Students
- Grading & Assessment
- Implicit Bias
- Inclusive Practices
- Student Motivation
- Writing Assignments





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#### cee.ucdavis.edu/jitt

# **CEE Gen AI Resources**



### https://cee.ucdavis.edu/GenAI



## Select CEE Programs, Spaces, and Tools







#### Faculty Learning Communities



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### Teaching and Learning Lab in the Teaching and Learni

#### Know Your Students Learning Analytics

### **Know Your Students App**

### knowyourstudents.ucdavis.edu

A course-level dashboard for instructors to support course planning, raise awareness of inequities, and promote equitable teaching practices.

STA 013 - 77 Grades, Grouped by Related Course

Grade Distributions in Related Courses



### **Know Your Students App**

### knowyourstudents.ucdavis.edu

#### **Course Demographics**



#### Office Hour Scheduling



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### **Know Your Students App**

### knowyourstudents.ucdavis.edu



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Spr 2018

Fall 2019

Spr 2021

Fall 2021

Sbt 2019

Fail 2022

501 2022

Fail 2023



### Equity in Assessment

#### Program-level Assessment Capacity Enrichment for Equity (PACE4E)

Growing capacity for equity-centered program-level assessment of student learning outcomes





This Fall! A.C.T. is a fully-asynchronous and self-paced course, designed to teach participants how to define, design, and develop high-impact assessments for their undergraduate courses



### Scholarship of Teaching & Learning Conference



New Submission Deadline: 10/4 Registration Opens: 10/14

https://sotl.ucdavis.ed

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### Scholarship of Teaching & Learning Conference

#### **UC Assessment Conference**

Equity-Minded Student Learning Outcomes Assessment across the Institution

Feb. 12, 2025

UNIVERSITY OF CALIFORNIA

### New Submission Deadline: 10/6 Registration Opens: Week of 10/7

https://bit.ly/2025UCAC





### **CEE Program Participant Feedback**

The most useful aspect of this workshop was the specific examples provided throughout the presentation.

All of the examples and resources -- I can integrate these into my teaching immediately.

So much great content, but I especially appreciate examples of how to engage learners being shown through the teaching of the workshops as I could really see how they could work on-the-ground.

It has been valuable to meet like-minded people (in very different areas of the institution) who are thinking about the same issues.

Meeting people from other departments since it's usually hard to interact outside of our comfort zones.



### Introduction: SparkSessions





<u><b>Topic</b></u> (4 x 15 mins)	<u>Experts</u>	
Universal Design for Learning	Katie Healey, PhD CEE Education Specialist	
Active Learning	Patricia Turner, PhD CEE Education Specialist	
Equitable Assessments and Grading	Erica Bender, PhD CEE Assessment Specialist	
Teaching with International and Multilingual Students	<b>Dawn Takaoglu, MA</b> Director of International & Academic English, Global Affairs	

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# Universal Design for Learning

Please take out your **light blue** handout with the brain icon in the corner  $\rightarrow$ 





# **Exploration: Quick Reflection**

**<u>Reflect & Share</u>**: Briefly consider the following & share with a partner:

### How do you engage best with your own learning?

- A. Alone, by reading? Watching videos? Listening to lectures or podcasts?
- B. With others, working through problem sets/case studies/experiments?
- C. Through structured routines or spontaneous activities?
- D. Some combination?

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# What is Universal Design for Learning?

- Multiple Means of Representation by sharing information and content in a variety of ways to support different learners
- Multiple Means of Action & Expression by offering options for students to demonstrate their learning
- Multiple Means of Engagement by stimulating motivation
  and sustained enthusiasm





# **Benefits of UDL**



- Promotes the curb-cut effect: Just as curb cuts in sidewalks allow folks using wheelchairs—but also people pushing strollers, wheeling suitcases, or riding bicycles—to safely navigate curbs, UDL helps all students, including those with disabilities
- Empowers autonomous learners through choice and flexibility (Saborío-Taylor & Rojas-Ramírez, 2024)
- Develops knowledgeable and resourceful learners (Galkienė & Monkevičienė, 2021)
- Fosters purposeful & reflective learners (Meyer et al., 2014)



# UDL Strategies: Plus-One

Add one modality: consider adding a video or podcast episode on a topic to supplement a reading. Look for media that include captions or transcripts for accessibility.

**Add one choice:** instead of assigning a single essay topic, offer two (or more) prompts from which to choose. Or if you assign a single topic, consider allowing multiple submission types (traditional papers, blog posts, short videos, webpages, etc.)

**Add one support:** demonstrate and encourage the use of tools like text-to-speech, speech-to-text, or Pomodoro timers for task management. Consider providing incomplete outlines or concept maps to guide student note taking.

Add an additional way to engage: if students typically work independently, try partner or small group work. Alternatively, if group work is the norm, consider proortunities for independent learning.

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# **Activity: Anticipating Barriers**

Choose **one learning activity** from the list below and discuss with a partner:

Who might struggle with this learning activity and why? What adjustments or supports might you offer to reduce barriers to learning?

- A. Read 75 pages of a novel by next class period two days from now
- B. Complete an in-class quiz with multiple choice and short essay questions in 50 minutes
- C. Conduct a biology experiment with micropipetting
- D. Write a 5-page review of a silent film







To sum up, reflect about what you've learned today.

Take one minute and note down on your post-it:

# What's one UDL strategy you plan to implement in your teaching?







To learn more about accessibility and UDL, contact **Katie** at khhealey@ucdavis.edu and consider applying to a future Universal Design for Learning Institute (UDL-I)!



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# **Strategies for active learning**

Please take out your yellow handout with the conversation icon in the corner  $\rightarrow$ 





# **Exploration:** Think-Pair



**<u>Think</u>**: On a post-it, write down your initial response to the question:

# *What strategies do you use, or have you observed others using, that support active learning in class?*

**Pair**: Now, turn to a partner and briefly discuss your answers.



# What is Active Learning?

Active learning refers to: Instructional activities that engage students in doing things as well as thinking about what they are doing.

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- Student-centered
- **Co-construction** of knowledge, skills and values
- Group and individual ulletactivities related to subject
- **Higher-order thinking** skills
- Timely feedback from peers and instructors
- Helping **students think** ulletabout their own **learning** (Metacognition)
  - Learning by doing



# **Benefits of active learning**

- 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%.

# **Active Learning Strategies**



# **Activity: Peer Teaching**

First, read one active learning strategy.

Then, turn to the person next to you and share the strategy you read.

Then, **listen to your** partner's strategy. How could you use it in your class?

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#### Activity: Peer Teaching on Active Learning Strategies Learning Strategies

#### Read one active learning strategy from the list below.

Then, turn to a partner and share the active learning technique that you read. Take turns.

- Pause for Reflection: Throughout a lecture, particularly after presenting an important point or key concept, allow students to think about the information or check their notes. After waiting, encourage students to ask questions.
- Minute Paper: Ask students to spend a few minutes writing short responses to questions meant to gauge their understanding of a class concept. This strategy also provides you with an opportunity to assess students' understanding in a more holistic way than quizzes.
- Muddiest Point: Toward the end of class, ask students to write a short note explaining which point from that day's class is most unclear to them. This strategy helps you better assess student learning and helps students reflect on their learning process.
- Think/Write-Pair-Share: In this activity, the instructor asks the class a question, and then gives students a few minutes to write down a response. Students then pair up and share their ideas. You can then ask students to report back to the whole class.
- 5. Gallery Walk: Set up stations or displays throughout the room. Ask students to visit each station individually or in groups, completing a task or responding to a specific prompt at each station.

# The Interactive Lecture



Lecture interspersed with moments of interaction (active learning)

Examples:

Think-pair-share Minute paper Jigsaw discussion Role play To sum up, reflect about what you've learned today. Take one minute and note down on your post-it:

a) What did you learn today?

b) What questions do you still have about active learning?

Please add your name and e-mail to the post-it and give it to a member of CEE if you would like me to follow up with you.



# Thank you!



Patricia Turner pturner@ucdavis.edu

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Image Credit:

Conversation by Brave from the Noun Project: https://thenounproject.com/icon/conversation-7068769/

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# Equitable Assessment & Equitable Grading

with the paper/pencil icon in the corner



# **Exploration: Word Association**

What are the first 3 words that come to mind when you hear the word "assessment"?

**Any activity** where students are expected or required to demonstrate their learning.

**Formative Assessments:** usually lower-stakes activities designed for students to self-assess their learning and/or get feedback on learning in progress.

**Summative Assessments:** more formal/higher stakes activities designed to audit/evaluate student learning (usually with a score/grade).

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# Assessment Vs. Grading

**Goal = observe** learning/how student demonstrates their learning.

#### **Observation**

considers learning outcomes above all else. **Feedback** provides suggestions for deepening learning.

Result: actionable feedback

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Assessment

Interacting with students' work.

Assigning scores, giving feedback.

Grading

Goal = make a judgement about student's performance.

> **Judgement** also considers conformity to rules/constraints.

Feedback provides rationale for the judgement.

Result: score

# Equity, Assessment, & Grading

#### **Equitable Assessment:** Assignments/activities that:

- 1. Give all students equitable chances to demonstrate learning.
- 2. Do not inadvertently privilege some students over others.
- 3. Promote transparency (disrupt the hidden curriculum).

#### **Equitable Grading:** Grading/scoring practices that:

- 1. Mitigate potential biases.
- 2. Promote transparency (holds all students to the same, shared standards).

3. Are flexible / allow for diverse demonstrations of learning within common UC guidelines. CENTER FOR EDUCATIONAL EFFECTIVENESS Office of Undergraduate Education

### Strategies for Equitable Assessment (1)

#### **Inclusive Content**

The content of the activity is equally familiar to all students (e.g., application scenarios).

Taught content only, empowering students to select material aligned with their own experiences. **Utility Value** 

The extent to which students perceive the work to have worth beyond generating a score/grade.

High-utility-value assignments can reduce equity gaps in student performance.

Multiple options, collaborative examples, student choice, etc.

Applied learning, authentic projects, real-world/"sticky" problems, etc.



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### Strategies for Equitable Assessment (2)

#### **Transparent Assessment**

#### Purpose of the activity.

- What learning outcomes are being assessed/developed?
- How will the activity support learning (toward the outcomes)?

#### Task(s) required by the activity.

• Sub-tasks and steps that students will need to follow.

#### Criteria that will be used to assess/evaluate students' work.

• Checklist/rubric so that students can self-assess and direct their study/preparation accordingly.

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# Strategies for Equitable Grading

**Revising assignments** that privilege certain kinds of cultural knowledge, grounding in inclusive content.

Using **"blind" scoring**, using a **rubric that has been shared** with students in advance, and **norming** across multiple TAs/readers.

Engaging principles of **Universal Design for Learning** to allow for a range of options to complete assessment tasks.

**Eliminating downward curve grading** (setting arbitrary limits on the number of students who can get an A).

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# Activity: Mini Assignment "Charrette"

What is an assignment "charrette"?

Today: A micro version!

#### Think/reflect on your own:

- What is the context of the assignment? How does it "fit" into the rest of the course?
- What should students learn from the process of completing the assignment?

#### Discuss with a neighbor:

- Describe your assignment and what students learn from engaging with it.
- Self-assess the assignment's **utility value** for students. How might you increase the utility value of the assignment in the future?

#### Additional strategies included in your handout!

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### Why Invest in Equitable Assessment & Grading?

### For You:

- More interesting assignments because they connect to what you really value.
- Enhanced opportunities to learn from your students,.
- Fewer grade disputes because expectations are transparent and fair.

### For Your Students:

- Increased academic performance.
- Greater engagement in the class and with you/TAs.
- Reduced equity gaps and disrupting educational inequities.

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# **Closing: Exit Ticket**

Choose one:

- 1. What equitable assessment and/or grading practices are you interested in exploring?
- 2. What questions do you have about equitable assessment and/or grading?
- 3. How prepared do you feel to assess students' learning at UC Davis?
   Please add your name and hand the post-it to one of my colleagues if you'd like me to follow

up with you.





If you'd like to discuss assignments, assessment or grading, please feel free to contact me at **ecbender@ucdavis.edu**.

Scan the QR code to the right to sign up for the CEE newsletter and receive information about our future **assignment (re-)design workshops**!







# References

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# We Value Your Feedback!



# **Thank You!**

