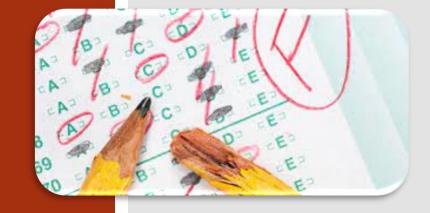
'I Failed': Student Meaning-Making of STEM Assessment Practice



Manisha Kaur Chase, Ph.D.

California State University, Northridge



Workshop Outcomes

- <u>Understand</u> why student perception of STEM grades and classroom assessment might impact motivation and STEM-identity
- <u>Operationalize</u> grade/assessment meaning-making as it relates to your own classroom/practice

 <u>Discuss</u> how STEM grade/assessment meaningmaking may differ relative to student identity (URM vs. non-URM)



Throwback Reflection

Think of a time during your undergraduate career that you earned a grade lesser than what you expected:

 How did this affect your beliefs about your ability to learn/succeed?

 How did this affect the way you perceived what other people thought about you (i.e., professor, peers, family, friends)?

 How did this affect your ability to persevere? How about your effort on future work?



Grades + Meaning-Making

• Grades are not simply markers of performance, rank measures, numbers, or letters in silos

- Grades communicate certain things and students may make and take different meaning relative to the grades they receive
- Particularly in STEM or STEM-related courses where there is more perceived rigidity/right vs. wrong



What We Know

- Equity gaps persist in STEM and STEM-related courses (Chen & Soldner, 2013)
 - i.e., my institution=HSI-serving, 7 of 10 top courses with highest equity gaps for First-Gen are STEM or STEM-related

- These outcomes may be a result of perception of the classroom (i.e., sense of belongingness and exclusion)
 [Jantzer, Kirkman, & Furniss, 2021]
- Perhaps a closer inspection of the perception of classroom assessment and grades is needed relative in STEM



Operationalize

- As an instructor, how do you make meaning of the grades you assign in your courses?
 - In other words, what do grades mean to you?

- As an instructor, how do you hope students make meaning of the grades you assign in your courses?
 - In other words, what do you hope grades mean to students?

Discuss

 Anecdotally, what do you notice about how students make meaning of the grades you assign?

- Given what we know about increased rates of imposter syndrome and decreased sense of belonging for URM-students in STEM—how might grades/classroom assessment be perceived differently for this population?
- What are steps have you taken or have heard been taken to bring student voice into classroom assessment practice?



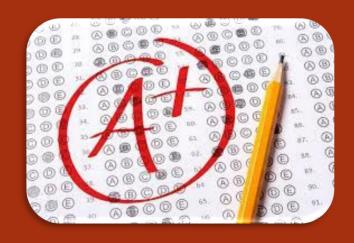
Take-Homes

Grades are not devoid of meaning

- Grades may be differentially perceived in STEM for URM vs. non-URM students
 - Evidence pending...
- Bringing student voice into classroom assessment practice may help address STEM equity gaps



Thank You!



Manisha Kaur Chase, Ph.D.
California State University, Northridge
manisha.chase@csun.edu

Copy of Handout + Slides:



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- How did this affect the way you perceived what other people thought about you (i.e., professor, peers, family, friends)?
- How did this affect your ability to persevere? How about your effort on future work? Operationalize

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