



Impacts of Culturally Responsive Practices in Technician Education: Student and Faculty Perspectives

Wednesday, April 26, 2023

Westchester Community College, Florence Darlington Technical College, and
The Center for Broadening Participation in STEM at Arizona State University



Center for Broadening
Participation in STEM



Getting Started

- Using the chat box, please provide
 - Name
 - Others In the room with you
 - Institution
 - Role at Institution
 - Favorite food
- Ask questions in the chat
- Questions will be answered during the webinar
- Change the view in the upper right-hand corner





Poll Question

What is your primary role at your college?

1. Faculty
2. Grant Writer
3. Administrator
4. Other



Poll

Welcome and Introductions



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- ❑ What is culturally responsive education?
- ❑ What are the benefits of culturally responsive education?
- ❑ What is an "Asset Mindset"?
- ❑ Provide some tools and inspiration for culturally responsive education
- ❑ Respond to a willingness to try new things in culturally responsive education





Culturally Responsive Education

Culturally Responsive Education for Advanced Technician Educators (CREATE) is a professional development series that guides STEM educators in developing beliefs and competencies that are culturally responsive.

Culturally responsive approaches use the cultural knowledge, prior experiences, frames of reference, and performance styles of ethnically diverse students to make learning encounters more relevant and effective for them (Geneva Gay, 2013).





Culturally Responsive Education – What Difference does it make?

- ❑ Sense of belonging
- ❑ Self-Efficacy in STEM
- ❑ Respect for each others' cultural assets
- ❑ Engagement and retention
- ❑ Increased participation
- ❑ Linguistic diversity





What shapes our expectations of ourselves as educators and of our students?



Asset versus Deficit: Educational Context



Deficit Orientation

Asset Orientation

	Deficit Orientation	Asset Orientation
Expert definition	Explains educational disparities by placing fault on the students' personhood, communities, backgrounds and families therefore assuming the solutions for improvement or reform are beyond teachers' and school systems' control and influence – (Scott et al. p.414, 2015)	Values strength, resilience, and assets. Shifts lens towards assets that are often hidden or taken for granted in hegemonic framework of imperialist, white supremacist, cis-gendered, heteronormative patriarchy – (Morrison, p. 191, 2017)
Lay definition	Thinking about a social group in terms of what they lack, e.g. literacy, preparation, knowledge	Thinking about people in terms of their strengths, and how they can lead to success
Solution focus	Fix deficit at the student level to resemble model social group.	Places necessity of change on the institution and educators to harness students' assets and create an environment that fosters reproducible success
Example	Learn a new skill, behavior, meet a standard. AP testing, SATs, Remedial Math	The concept of balance is widely adopted among Native Americans as a basis for scientific understanding



Chat Question

Many instructors are struggling with student preparedness and resilience in the return to in-person classes.

How would you use an asset based mindset in your classroom or work?





Cultural Collage Activity

- ❑ Dr. Elena Ortiz, Faculty in the Biosciences Department at Phoenix College
 - ❑ 17,000 students
 - ❑ 54.3% Hispanic Enrollment
- ❑ Sharing ***Cultural Stories*** to engage students and release their ***Cultural Strengths***



My Personal Collage / Storyboard

<name(optional)>



Insert and arrange numerous photos, graphics, diagrams, quotes, etc. to illustrate your:

- cultural heritage
- educational journey
- personal growth stories from challenges you faced
- people that inspired you
- other...

quote

photo

photo

graphic

photo

photo



My Personal Collage / Storyboard

Juan Rodriguez





Vulnerability and openness with students in action

- Share your heritage and culture
- Share your triumphs and your mistakes equally
- Be authentic
- Be vulnerable!



Student Voices:





Poll Question

Would you use the personal collage activity in your class?

1. Yes
2. No
3. Partially



Poll



Faculty Perspectives: Creating a Community of Practice

- ❑ Trainings in Culturally Responsive Education delivered over the last year
- ❑ Faculty Working Groups met in between trainings
- ❑ Stipend provided for participation



Faculty Perspectives: The Results



- Developed resources to help students' time management
- More cohesive class environment
- More discussion of long-term academic goals
- Persistence
- Linguistic Diversity





Juan's Examples: Perspectives

- Linguistic Diversity
- Collage Assignment
- Timing
- On Line
- Feedback



Sarah's Examples: Perspectives



- ❑ Not multi-lingual





Poll Question

Which of the topics today are you likely to try in your classes (check all that apply)?

1. Utilizing an asset based mindset
2. Practicing vulnerability and openness with students
3. Developing Cultural Collage Activity
4. Embracing Linguistic Diversity



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Q & A





Center for Broadening
Participation in STEM



HSI ATE Hub 2: Professional Development for Culturally Responsive Technician Education

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