WELCOME TO



Electrical Engineering & Culturally Responsive Teaching Practices September 20, 2022 2:30pm

ABOUT THE PRESENTER



Dr. Sherisse Jackson

Orangeburg-Calhoun Technical College



ZOOM WEBINAR

Select a Speaker

HP E243m (Intel(R) Display Audio)

Speakers (Realtek(R) Audio)

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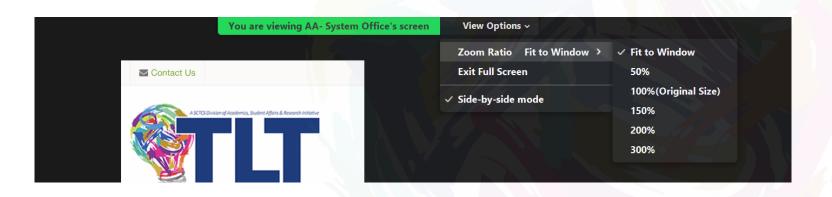
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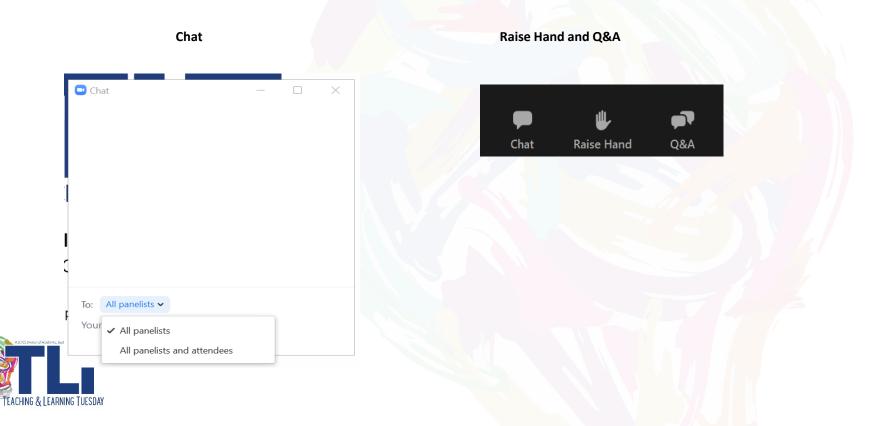
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ZOOM WEBINAR



ZOOM WEBINAR



SC Technical College System - TLT

ELECTRICAL ENGINEERING AND CULTURALLY RESPONSIVE TEACHING PRACTICES

Presenter: Sherisse G. Jackson, PE, EdD

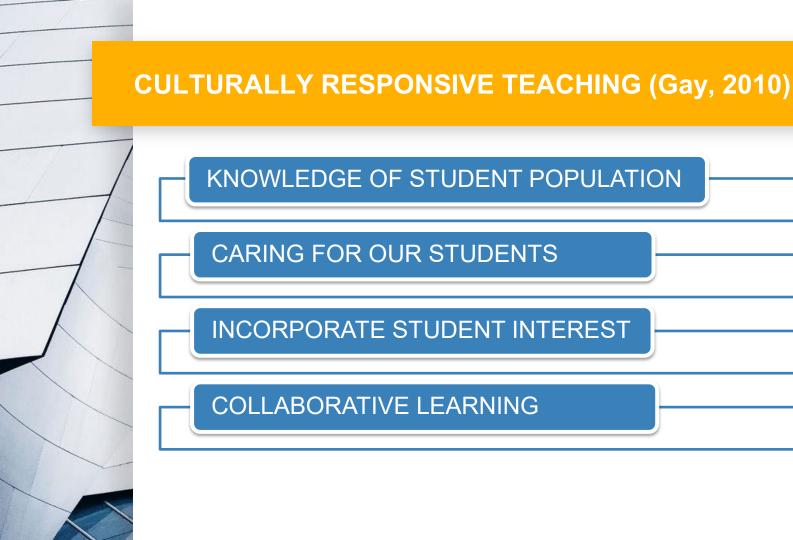


LEARNING COMMUNITY IN ENGINEERING EDUCATION



Meaningful Interactions

(Coleman, 2020; Holly, 2021; Tinto, 1997)



SHARING OUR STORIES



Welcome!

Posted Jan 4, 2021 8:00 AM

Hi Everyone!

Welcome to OCtech! Here's a little about my background and my goals.



I look forward to meeting you and learning more about you in the coming weeks! Best,

Dr. Jackson

INTRODUCTIONS





Dr. Jackson 🗸

Sherisse Jackson posted Aug 14, 2022 8:24 PM 🛛 🛧 Subscribed

Which statement about me is false?

a. I was born in Philadelphia, PA.

b. When I have time for recreational activities, I enjoy scrapbooking.

c. I helped redesign the emergency lighting at the National Museum of Natural History.

d. I graduated from Lower Richland High School in Hopkins, SC.

SET HIGH EXPECTATIONS

Research Project 🗸

b Starts Feb 21, 2022 8:00 AM

Prepare a PowerPoint presentation about the following:

Investigate related occupations for instrumentation and electrical engineering. Select a minimum of three jobs. Describe what the person does at work (i.e. job responsibilities). Describe the benefits of the job. Include which position you would apply for and why.

Download

Expand All | Collapse All

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🖶 Print

0% 0 of 4 topics complete

Research PowerPoint Rubric

Research PowerPoint

B Assignment

How to Create a PowerPoint

REFLECTIVE MOMENT



How do you introduce yourself and set high expectations for your students?



GETTING TO KNOW OUR STUDENTS

	nterest	t Form
--	---------	--------

Where did you attend high school?

Your answer

Name your hobbies

Your answer

What is your favorite college football team?

Your answer

What is your favorite professional football team?

Your answer

CONTACT INSTRUCTOR ASSIGNMENT

Contact the Instructor

- **B** Assignment
- Due January 17 at 11:59 PM Starts Jan 11, 2021 8:00 AM

Send a message to Dr. Jackson via email (jacksonsg@octech.edu) or the Remind App. After reading the syllabus and reading the information currently available to you in D2L. Describe what will be the most challenging part of this course for you.

OPEN COMMUNICATION – REMIND APP



Q & A DISCUSSION FORUM

Questions During Online Learning 🗸

Hi Everyone,

Please post all questions you have here so that we all have the same information. I will answer all questions by 8 am the following day.

Thanks,

Dr. Jackson

Торіс	Threads	Posts	Last Post
Questions and Answers	0	0	



CHECKPOINTS





Students

Student-Instructor Conference

Please review the available slots below and click on the button to sign up.

You can call (803) 268-2581 or use the Zoom link <u>https://us02web.zoom.us/j/3941540852</u>

Thank you!

Dr. Jackson

ONLINE ALTERNATIVE



Survey - Student-Instructor Conference

Answer the following questions based on your current experience in this course. A response is required for all items. If you do not have a comment, please type none. Thank you for your time! Dr. Jackson

* Required

Name *

Your answer

What aspects of this course were most useful or valuable? *

Your answer

What other activities would you like to see in this course? *

Your answer

REFLECTIVE MOMENT

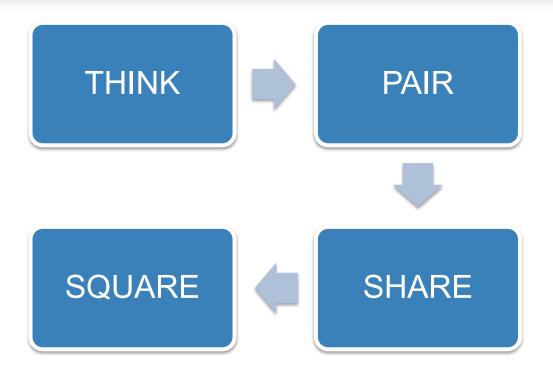


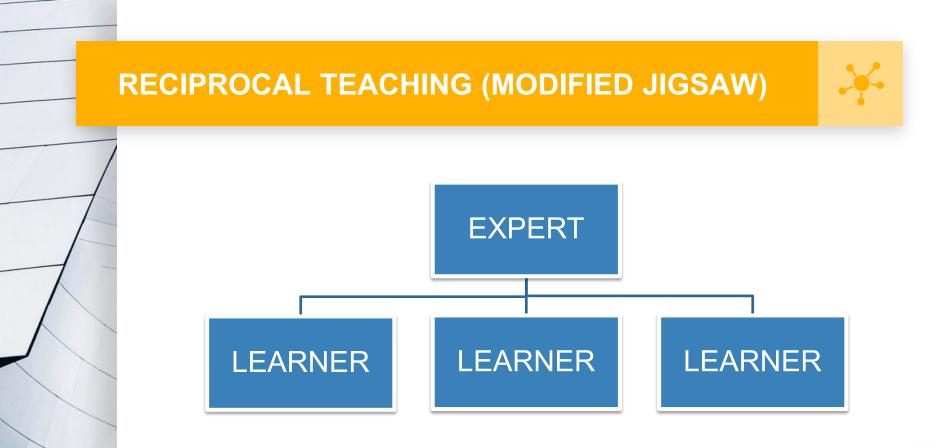
How do you get to know your students and encourage communication in your classroom?





RECIPROCAL TEACHING (TPSS)





DISCUSSION FORUMS

Safety Precautions

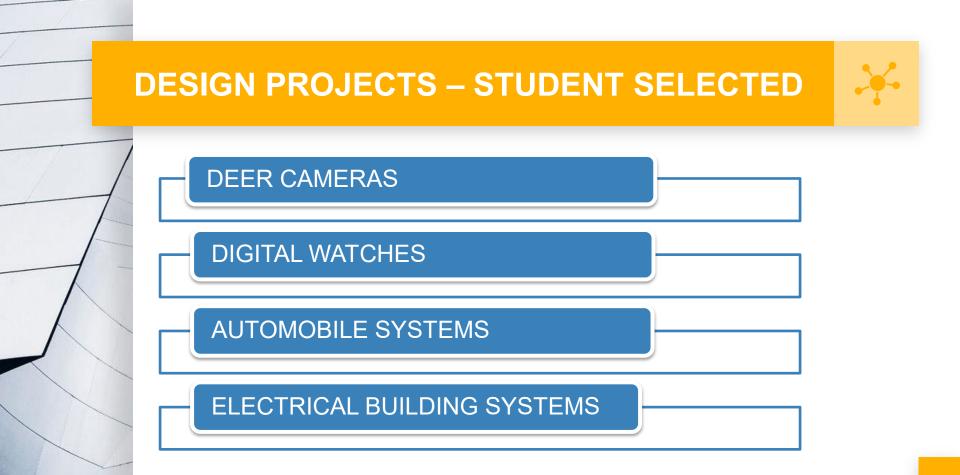
• Available on Monday, January 11, 2021 8:00 AM EST Must post first. When working in a lab environment, safety precautions must be taken to protect ourselves from electrical shock. Read the safety precautions in Chapter 1 of your textbook. After reading these safety precautions, examine the photo below. Discuss at least three safety precautions that were probably ignored and resulted in this accident.



Things to think about to help you write your responses to your classmates: What did I learn from this post? Can I relate this learning to another class? Can I relate this learning to something I see every day?

COLLABORATIVE LEARNING SPACE

1	/				
	Groups	Members	Assignment	Discussions	Locker
Co	ollaborative Learning (3)	~			
	Group 1	3		Discussion Forum	Group Files
	Group 2	3		Discussion Forum	Group Files
	Group 3	3		Discussion Forum	Group Files



REFLECTIVE MOMENT



How do you implement collaborative learning in your classroom?



???QUESTIONS???



(NON)DIVERSITY IN ENGINEERING

REPORT | APRIL 1, 2021

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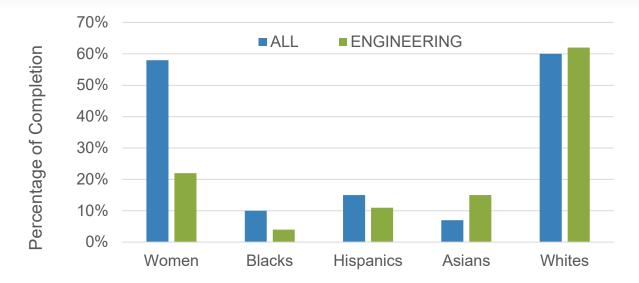
STEM Jobs See Uneven Progress in Increasing Gender, Racial and Ethnic Diversity

Higher education pipeline suggests long path ahead for increasing diversity, especially in fields like computing and engineering

BY RICHARD FRY, BRIAN KENNEDY AND CARY FUNK

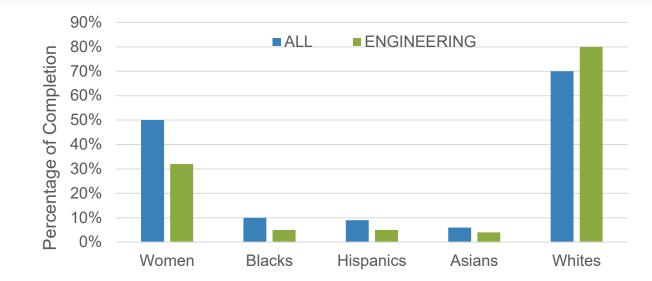


AWARDING OF UNDERGRADUATE DEGREES



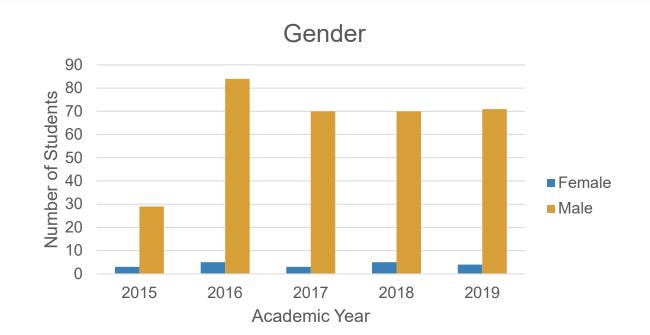
Gender and Racial/Ethnic Backgrounds

AWARDING OF UNDERGRADUATE DEGREES IN SC

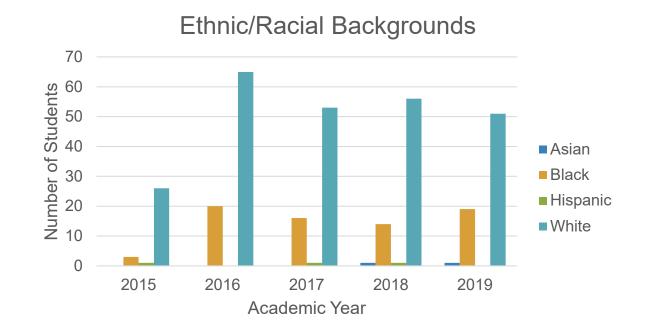


Gender and Racial/Ethnic Backgrounds

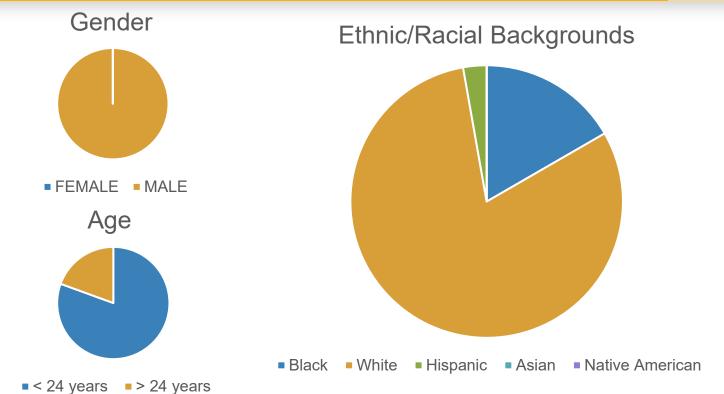
EET PROGRAM DEMOGRAPHICS



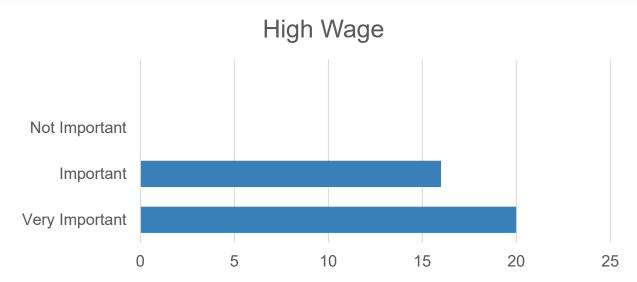
EET PROGRAM DEMOGRAPHICS



RESEARCH: SURVEY PARTICIPANTS

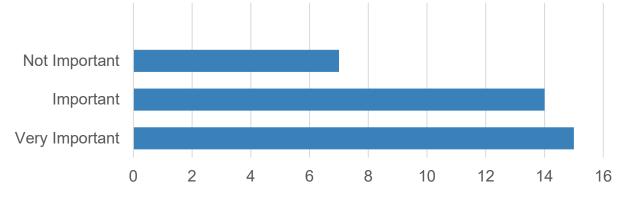






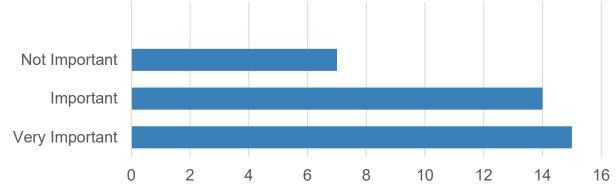


Availability of jobs near home



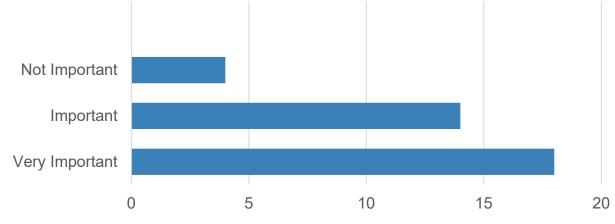


My friends think it's a good career for me



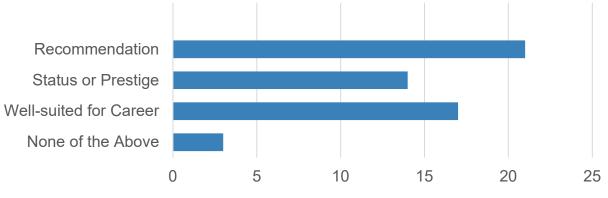


I know someone who does this type of work

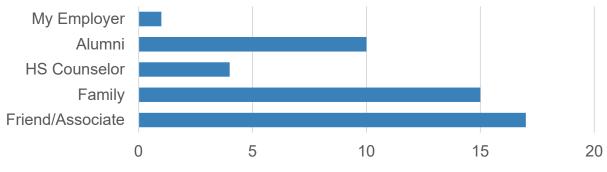


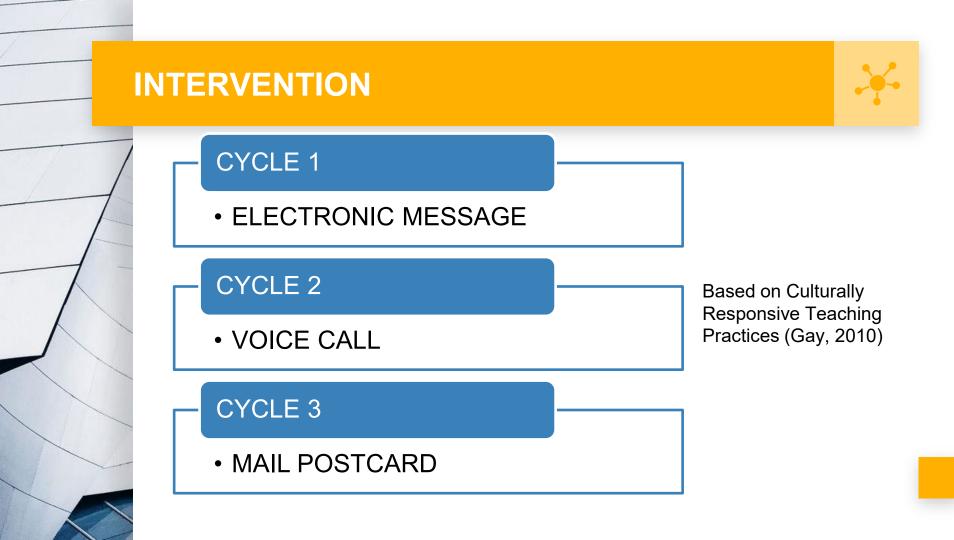


I chose this career path for the following reason(s):



If you selected "recommendation", who recommended this program to you:







FINDINGS AND FUTURE PLANS

- POSITIVE EXPERIENCE

– SEND TEXT MESSAGES

- SPHERES OF INFLUENCE

???QUESTIONS???



THANKS!

Any questions?

You can find me at:

jacksonsg@octech.edu

REFERENCES



- Coleman, A. (2020). D-STEM equity model: Diversifying the STEM education to career pathway. *Athens Journal of Education*. https://www.athensjournals.gr/education/2018-2539-AJE-STEAM.pdf
- Fry, R., Kennedy, B., & Funk, C. (2021, April 1). STEM jobs see uneven progress in increasing gender, racial and ethnic diversity. https://www.pewresearch.org/science/2021/04/01/stemjobs-see-uneven-progress-in-increasing-gender-racial-and-ethnic-diversity/
- Gay, G. (2010). *Culturally responsive teaching: Theory, research, and practice* (2nd ed.). Teachers College Press.
- Green, T. D. (2000). Responding and sharing: Techniques for energizing classroom discussions. *The Clearing House*, 73(6), 331–334.
- Holly Jr, J. (2021). Equitable pre-college engineering education: Teaching with racism in mind. *Journal of Pre-College Engineering Education Research (J-PEER), 11*(1), 9.

Istock. (2021). People thinking. Retrieved from istock.com

National Center for Education Statistics. (2022). College navigator: SC colleges and universities. http://nces.ed.gov/collegenavigator

Tinto, V. (1997). Classrooms as communities: Exploring the educational character of student persistence. *Journal of Higher Education*, *68*, 599–623.

2022 TLT FALL SESSIONS

October 18, 2022

Creating Killer OERs Mark Knockemus & Ron Stafford Northeastern Technical College

November 15, 2022Removing Transfer Obstacles: Meta-Majors and Guided
Pathways for University Transfer Students
John McGill, Cassandra Verardi, Amanda Lauren
York Technical College



Want to showcase your expertise? Is there a teaching technique that has been effective in the classroom? Apply to be a TLT presenter! For more information and full schedule: www.sctechsystem.edu/tlt

GIVE US YOUR FEEDBACK

https://www.surveymonkey.com/r/Sept22TLT

