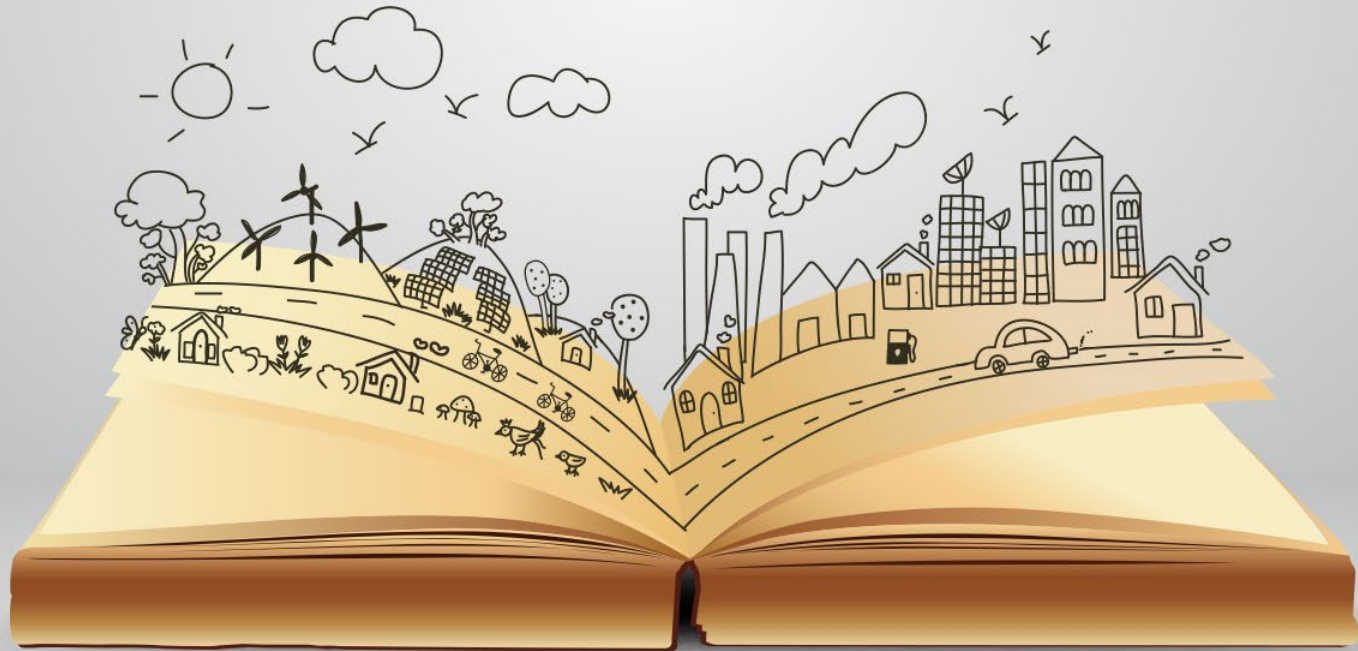


# Intersection of Social Determinants of Health with Learning: A Call to Action-Dr. Sandra Brightwell, RHIA, FAHIMA



AZCCAC, Tuesday, October 4, 2022

# Disclaimer

---

The views and opinions expressed in this presentation are for educational purposes only, are my *personal* views, and *may not* reflect the opinions, beliefs or viewpoints of  
Central Arizona College

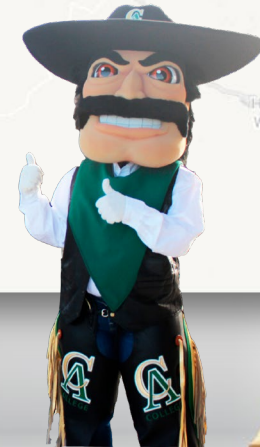
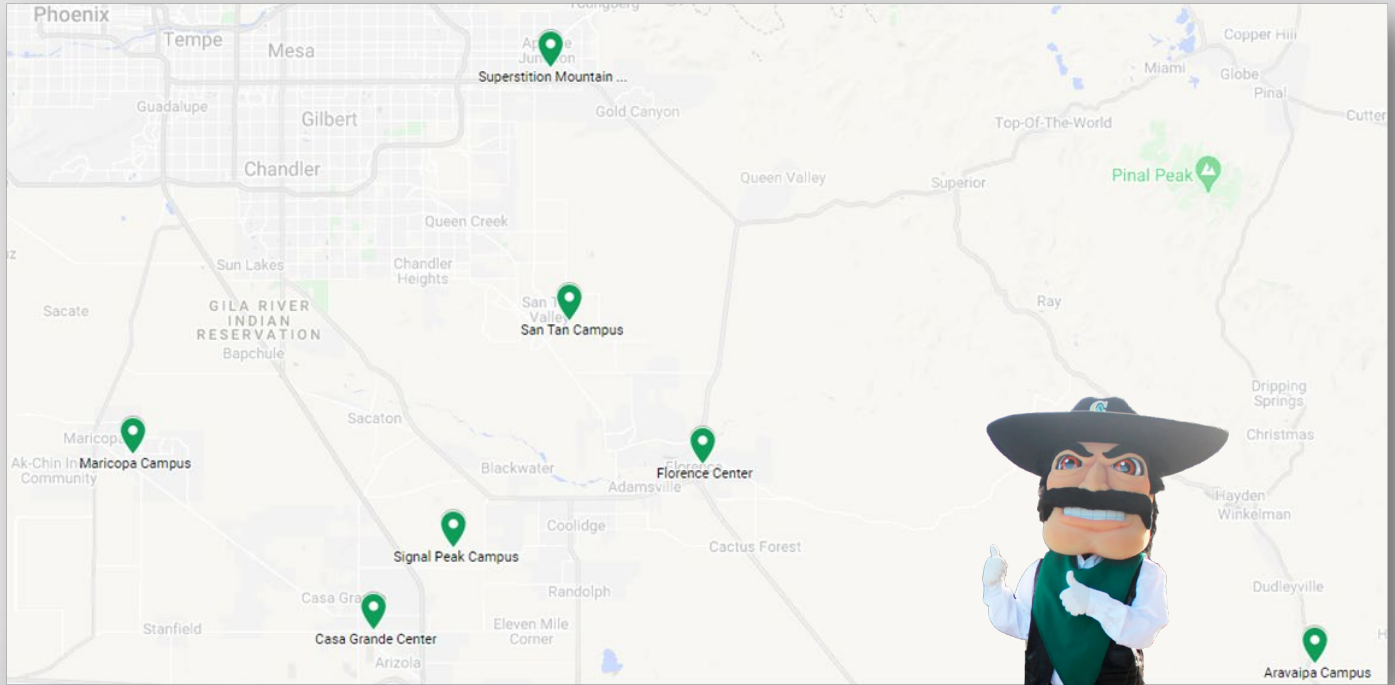




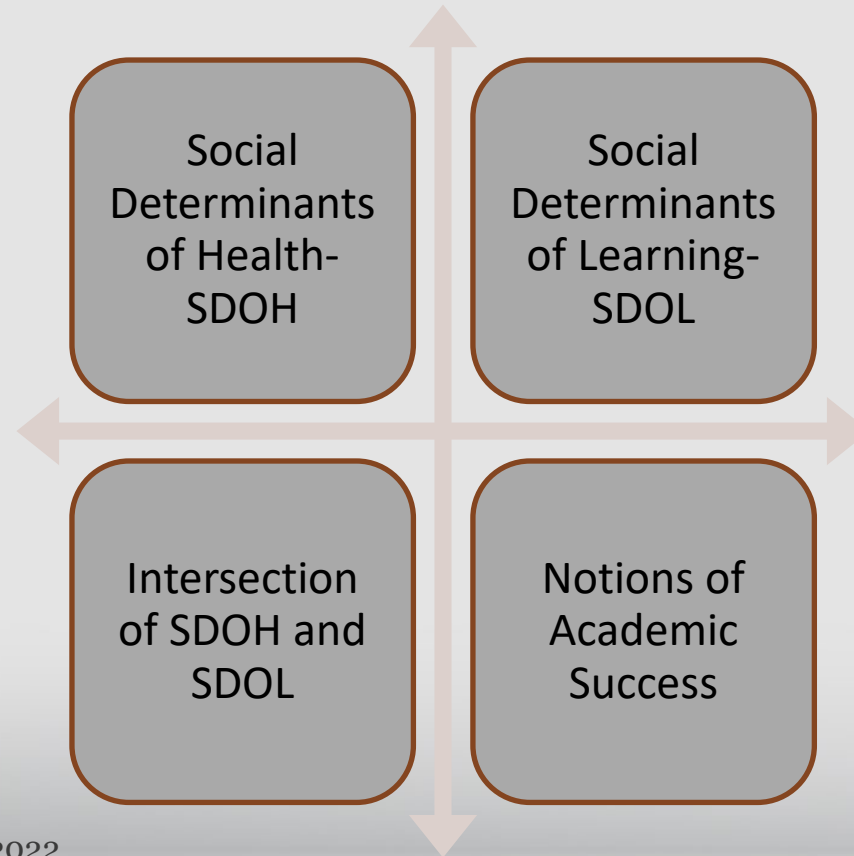


# Who is Central Arizona College?

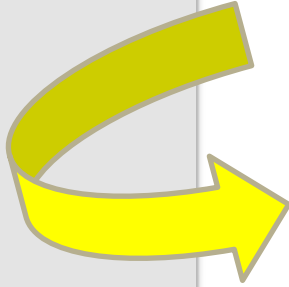
- Rural Community College, Est. 1970
- Located between Phoenix and Tucson
- 5 Campus District Model
- Hispanic Serving Institution



# Discussion Themes



# Social Determinants of Health



Social Determinants of Health  
Copyright-free



# Social Determinants of Health



## *Healthcare Access and Quality*

Connection between one's access to and understanding of health services and their personal health.



## *Education Access and Quality*

Connection of education to health and wellbeing.



## *Social Community and Context*

Connection between the characteristics of the contexts within which people live, work, learn, and play and their health and wellbeing.



## *Economic Stability*

Connection between financial resources people have and their health.

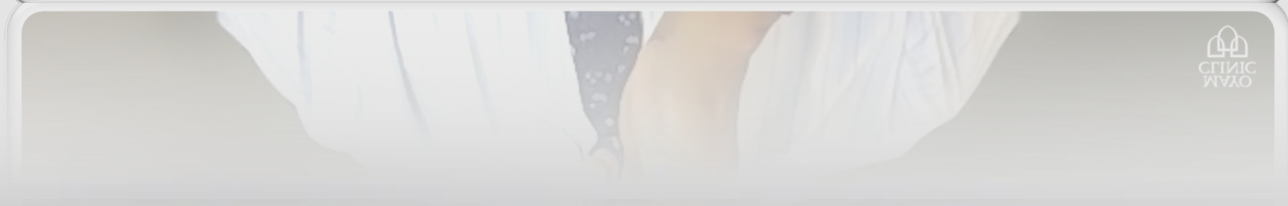


## *Neighborhood and Built Environment*

Connection between where a person lives and their health and wellbeing.







# Health Literacy

**Personal health literacy** is the degree to which individuals have the ability to find, understand, and use information and services to inform health-related decisions and actions for themselves and others.

**Organizational health literacy** is the degree to which organizations equitably enable individuals to find, understand, and use information and services to inform health-related decisions and actions for themselves and others.

The infographic features a title at the top with a caduceus symbol behind the word 'HEALTH'. Below the title is a definition of health literacy in orange text, followed by examples of where it is used in parentheses. A pie chart shows the distribution of literacy levels: Proficient (12%), Basic (22%), Below Basic (13%), and Intermediate (53%). A large number '77 million' is shown next to the text 'American adults have basic or below basic literacy skills'. To the right, a diagram shows a yellow arrow pointing up from 'costs go up' and a blue arrow pointing down from 'quality goes down', both under the heading 'Why is this important? Mistakes happen.'

the facts about  
**HEALTH LITERACY**  
in the united states

Health Literacy is an individual's ability to *understand and act on health information.*  
(brochures; warning signs; food & product info; health info on the internet)

**Why is this important?**  
**Mistakes happen.**

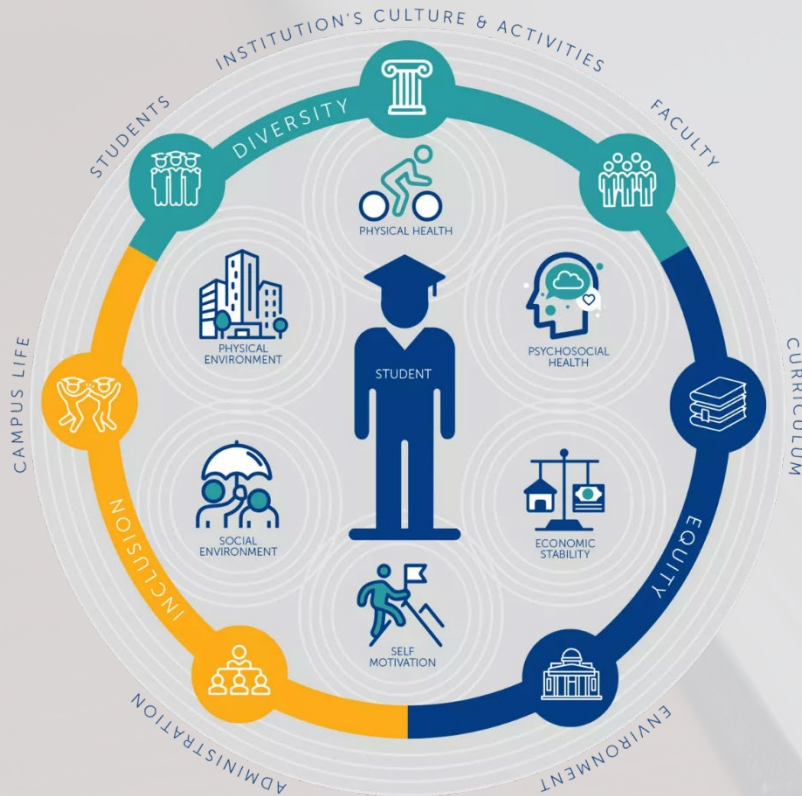
↑ costs go up      ↓ quality goes down

Proficiency Level	Percentage
Proficient	12%
Basic	22%
Below Basic	13%
Intermediate	53%

**77 million**  
American adults have basic or below basic literacy skills



# Social Determinants of Learning



Source: <https://www.chamberlain.edu/about/social-determinants-of-learning#:~:text=Chamberlain%20University%20has%20published%20research%20findings%20on%20the,to%20support%20nursing%20student%20diversity%2C%20equity%20and%20inclusion.>



# Bridging SDOH and SDOL

## *Social Determinants of Health*

- **Healthcare Access and Quality**
- **Neighborhood and Built Environment**
- **Social and Community Context**
- **Economic Stability**
- **Education Access and Quality**



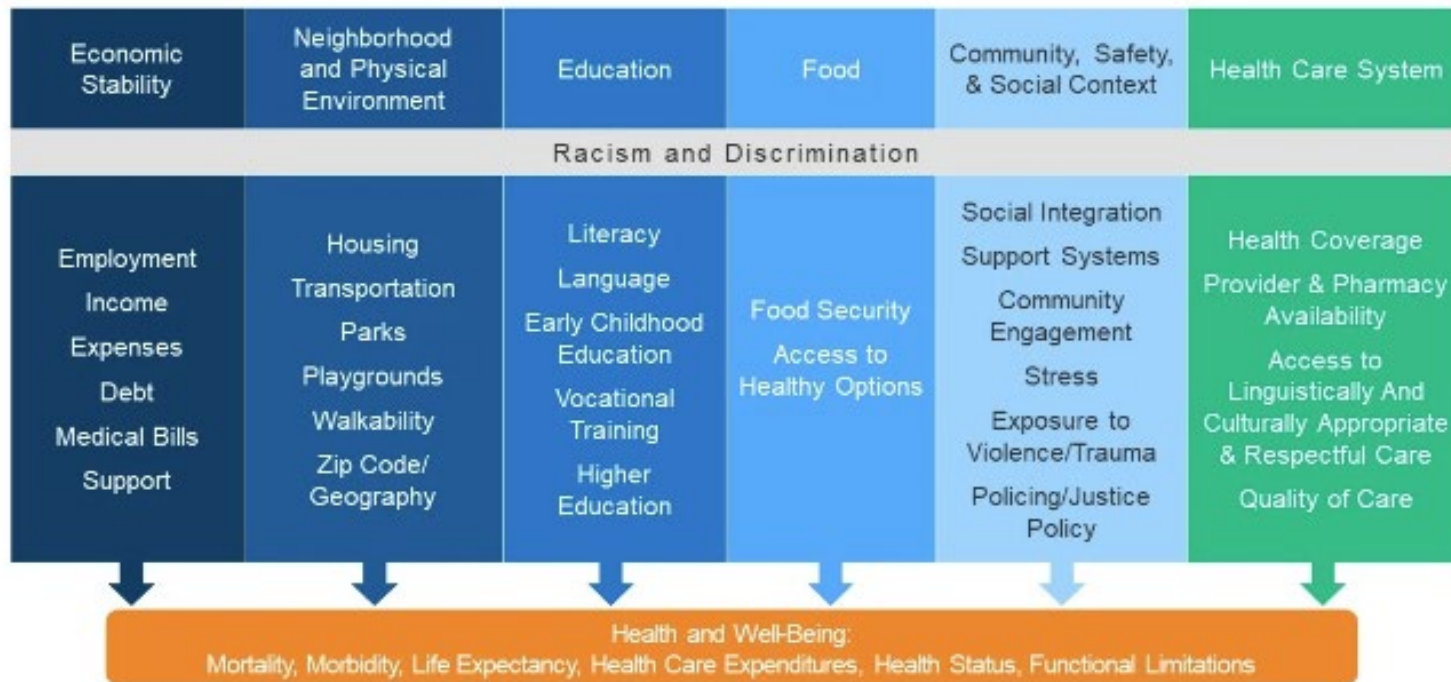
## *Social Determinants of Learning*

- **Physical Health**
- **Psychosocial Health**
- **Economic Stability**
- **Self Motivation**
- **Social Environment**
- **Physical Environment**





# Social Determinants of Health



# Population Below Poverty Level by U.S. State

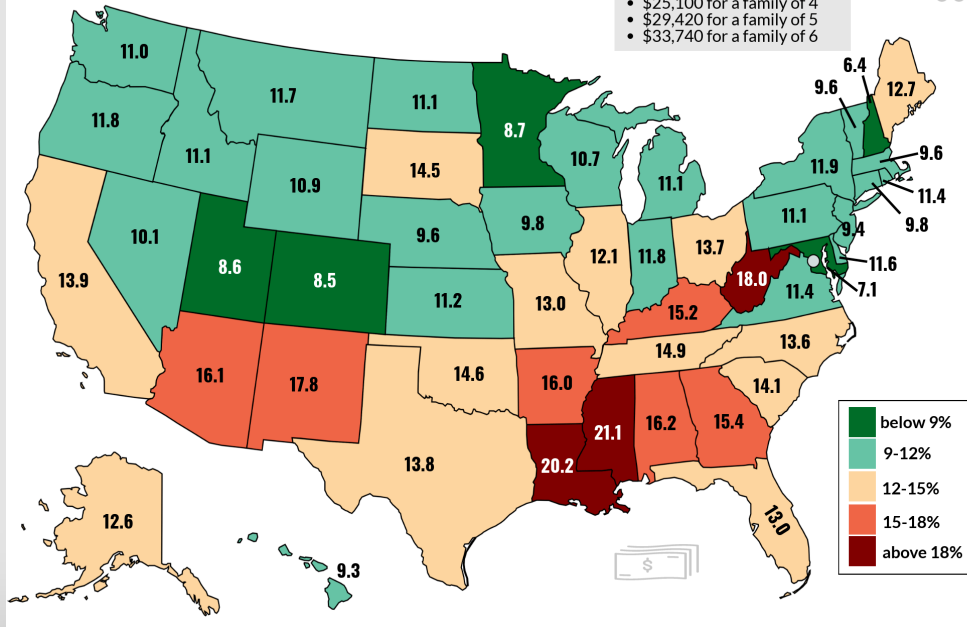
factsmaps.com

Source: U.S. Census Bureau, U.S. Dept. of Commerce, 2016

The poverty rate is the portion of the population with income below the government's official poverty level, which is the same nationwide but is adjusted each year for inflation.

### Federal Poverty Level (FPL) in 2018:

- \$12,140 for individuals
- \$16,460 for a family of 2
- \$20,780 for a family of 3
- \$25,100 for a family of 4
- \$29,420 for a family of 5
- \$33,740 for a family of 6

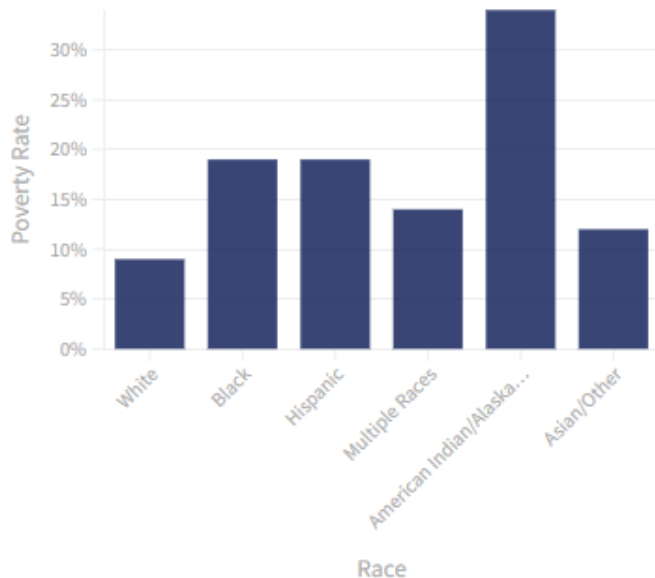


New Hampshire	6.4%
Maryland	7.1
Colorado	8.5
Utah	8.6
Minnesota	8.7
Hawaii	9.3
New Jersey	9.4
Massachusetts	9.6
Nebraska	9.6
Vermont	9.6
Connecticut	9.8
Iowa	9.8
Nevada	10.1
Wisconsin	10.7
Wyoming	10.9
Washington	11.0
Idaho	11.1
Michigan	11.1
North Dakota	11.1
Pennsylvania	11.1
Kansas	11.2
Rhode Island	11.4
Virginia	11.4
Delaware	11.6
Montana	11.7
Indiana	11.8
Oregon	11.8
New York	11.9
Illinois	12.1
Alaska	12.6
Maine	12.7
Florida	13.0
Missouri	13.0
North Carolina	13.6
Ohio	13.7
Texas	13.8
California	13.9
South Carolina	14.1
South Dakota	14.5
Oklahoma	14.6
Tennessee	14.9
Kentucky	15.2
Georgia	15.4
Arkansas	16.0
Arizona	16.1
Alabama	16.2
New Mexico	17.8
West Virginia	18.0
Louisiana	20.2
Mississippi	21.1



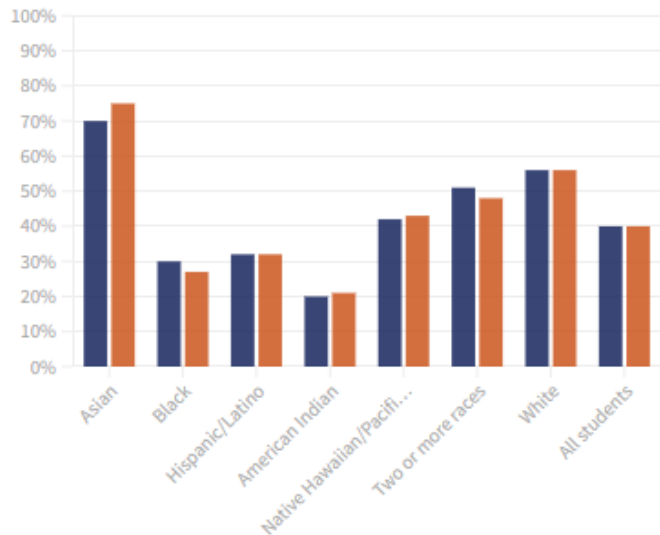
# Arizona's Inequities

## Arizona Poverty Rate by Race



Source: [Kaiser Family Foundation](#)

## English and Mathematics Proficiency by race in Arizona



Source: [Arizona Department of Education](#)

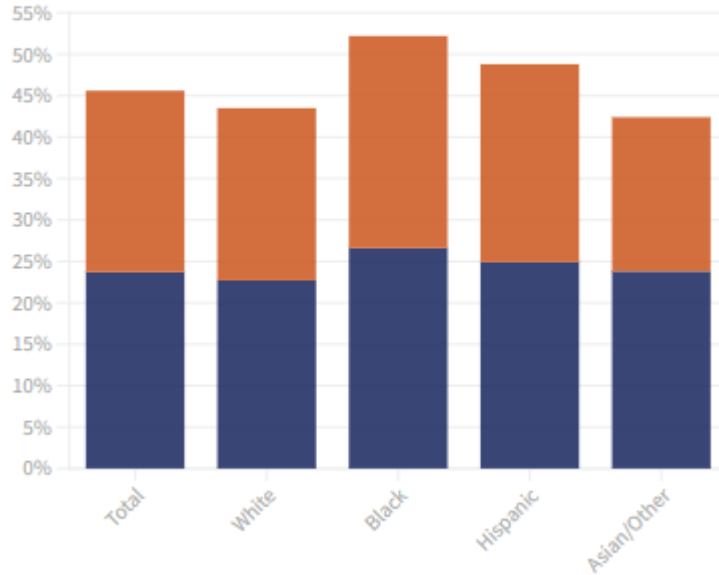




# Arizona's Inequities

## Renter Cost Burden by Race in Arizona

■ Severe Cost Burden ■ Moderate Cost Burden

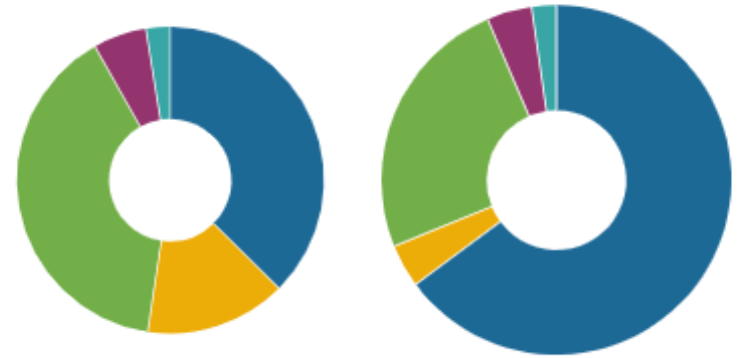


Source: [Harvard University](#)

■ White ■ Black ■ Hispanic ■ Native American ■ Other

## Prison Population

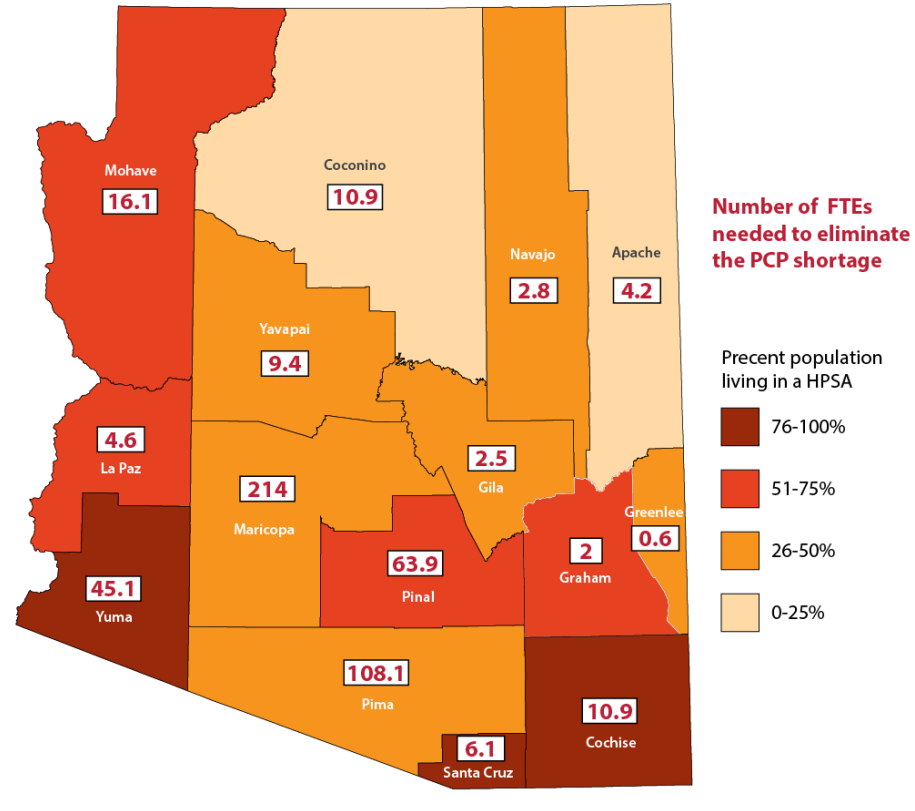
## Arizona Population

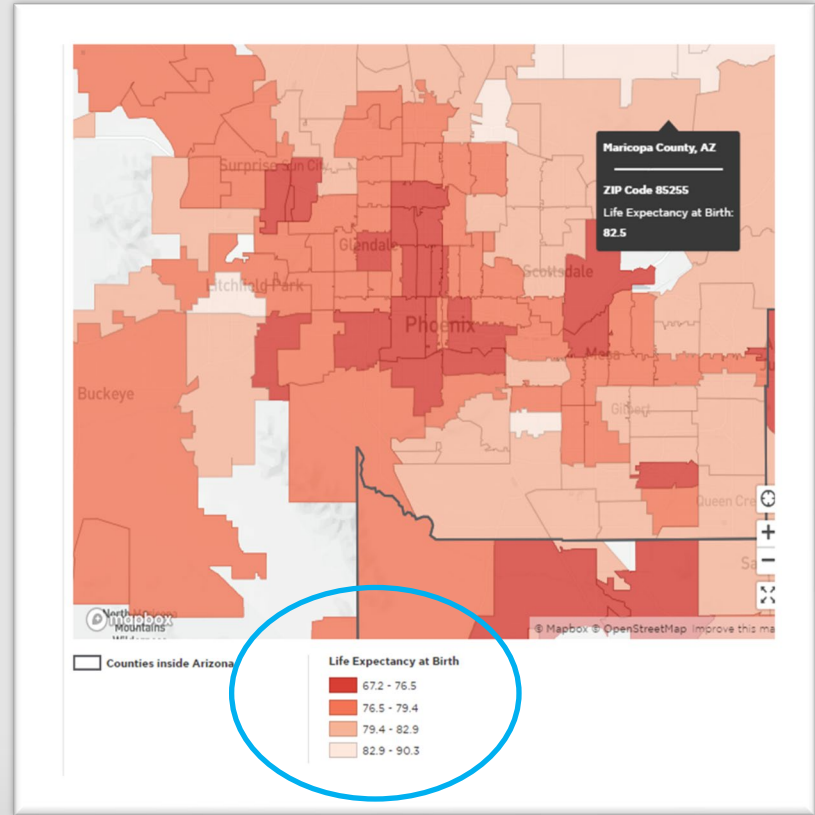
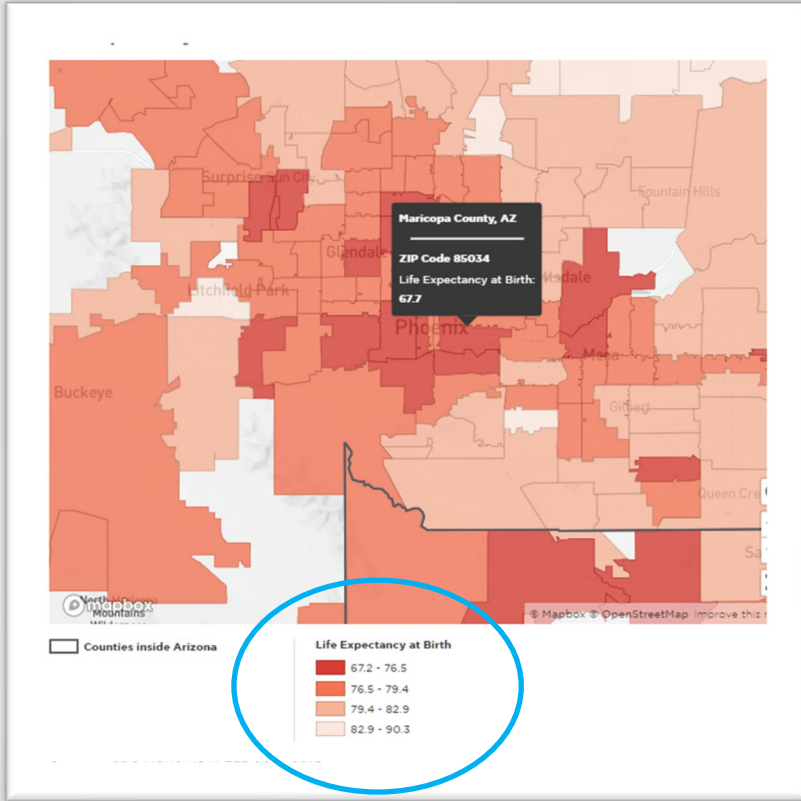


Source: [Arizona Department of Corrections](#), [United States Census Bureau](#)

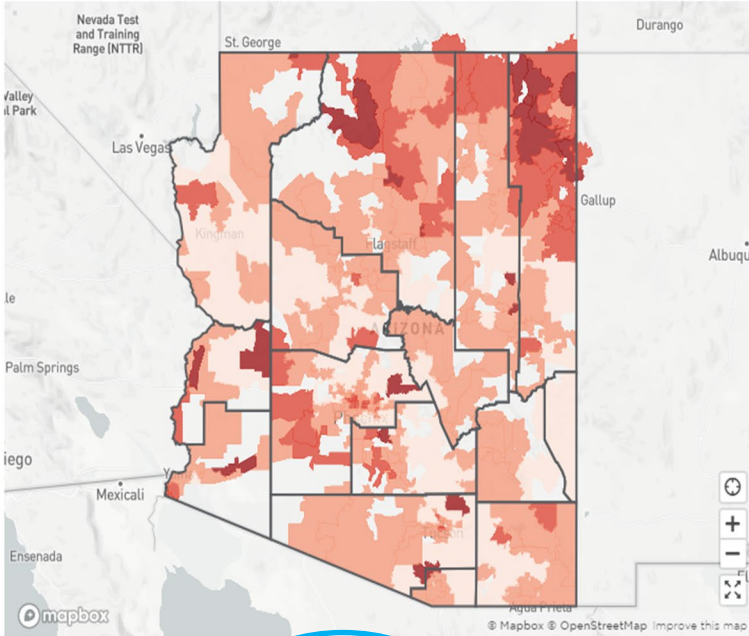


## Percent Living in Primary Care Shortage Areas (HPSAs) and Number of Providers Needed to Eliminate Shortage (2018)



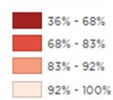


## Health Insurance Coverage by ZIP Code



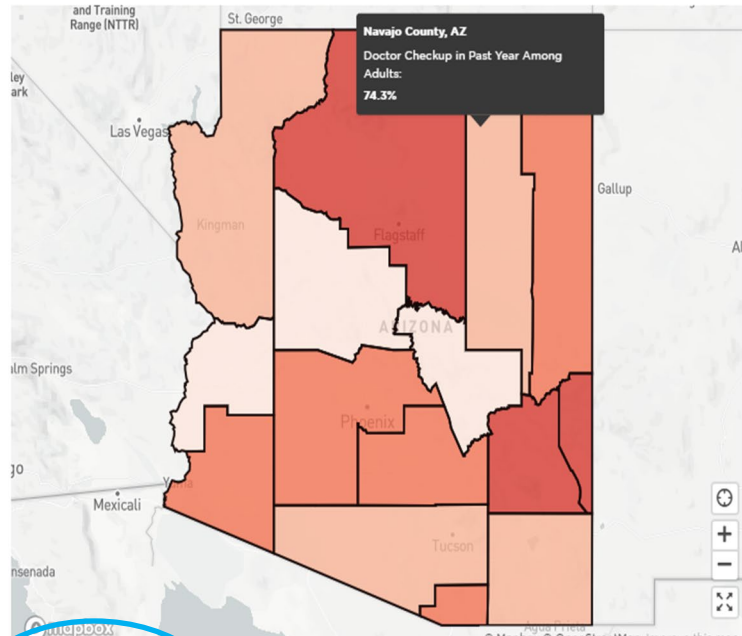
Counties inside Arizona

### Percent of Population Covered by Health Insurance

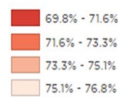


Sources: US Census Bureau ACS 5-year 2016-2020

## Doctor Checkup in the Past Year



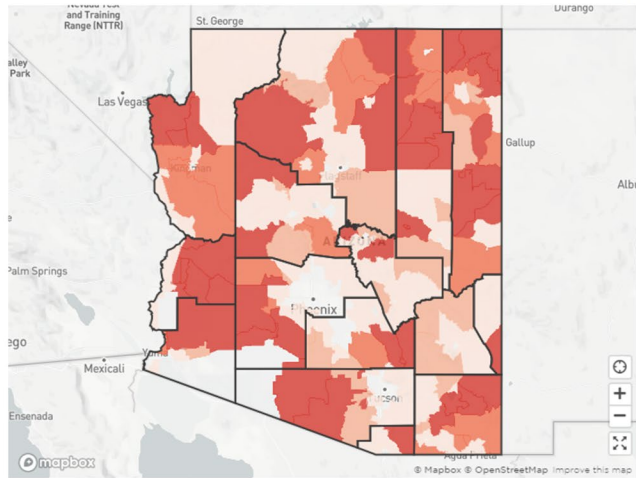
### Doctor Checkup in Past Year Among Adults



Source: CDC BRFSS 2019



People who live far distances from a grocery store selling fresh produce



Counties inside Arizona  
Sources: USDA ERS 2019



**247,525**  
People  
People Live 10+ Miles  
from Healthy Food  
Arizona

**87,653**  
People  
People Live 20+ Miles from  
Healthy Food  
Arizona

**35.5%**  
1+ Mile from Healthy Food  
People with Low Access  
to Healthy Food (Urban)  
Arizona

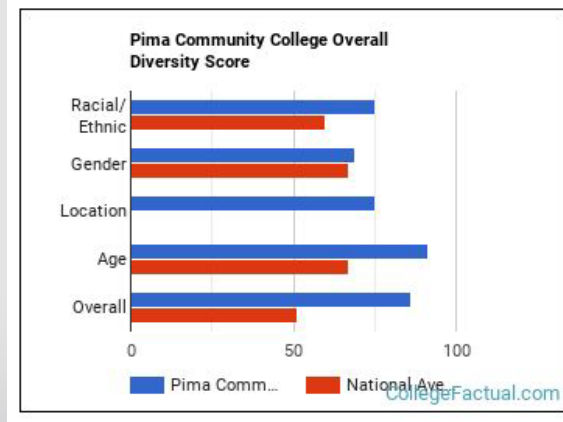
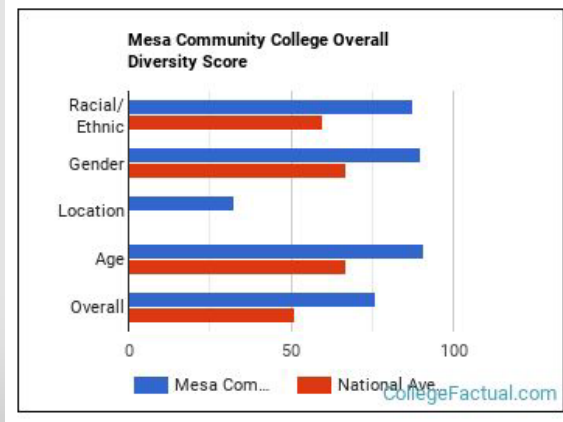
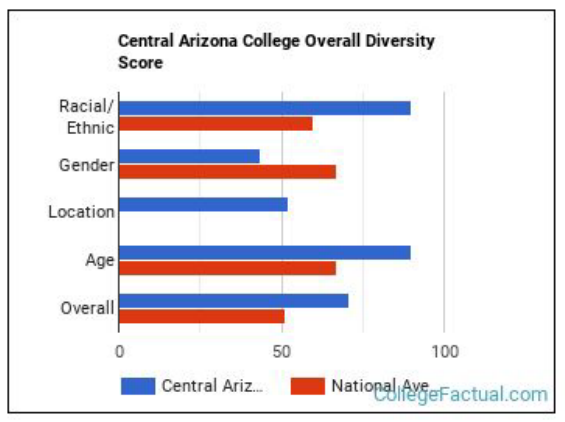
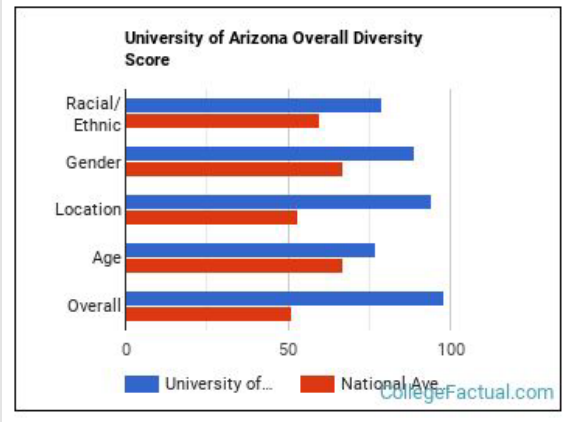
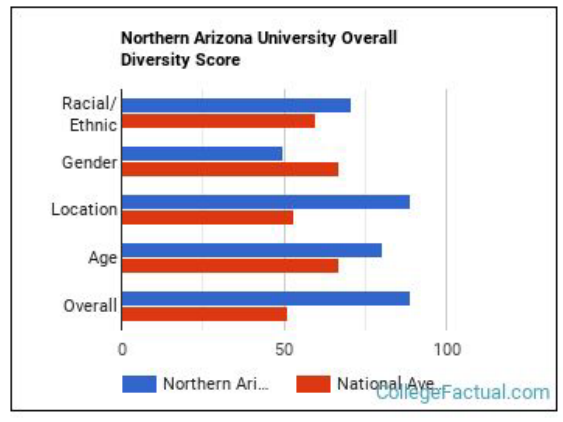
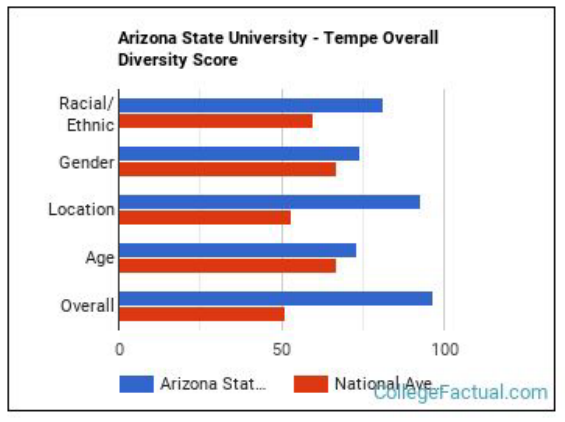
**1.4%**  
20+ Miles from Healthy Food  
People with Low Access  
to Healthy Food (Rural)  
Arizona

**2,269,685**  
1+ Mile from Healthy Food  
People with Low Access  
to Healthy Food  
Arizona

**87,653**  
20+ Miles from Healthy Food  
People with Low Access  
to Healthy Food (Rural)  
Arizona

Sources: USDA ERS 2019









# College Student Challenges

Health  
Family Commitments  
Finances  
Disabilities  
Degree-Major  
Personal-Private Space  
Employment  
Language  
Distractions  
Motivation  
Time Management  
Social Life





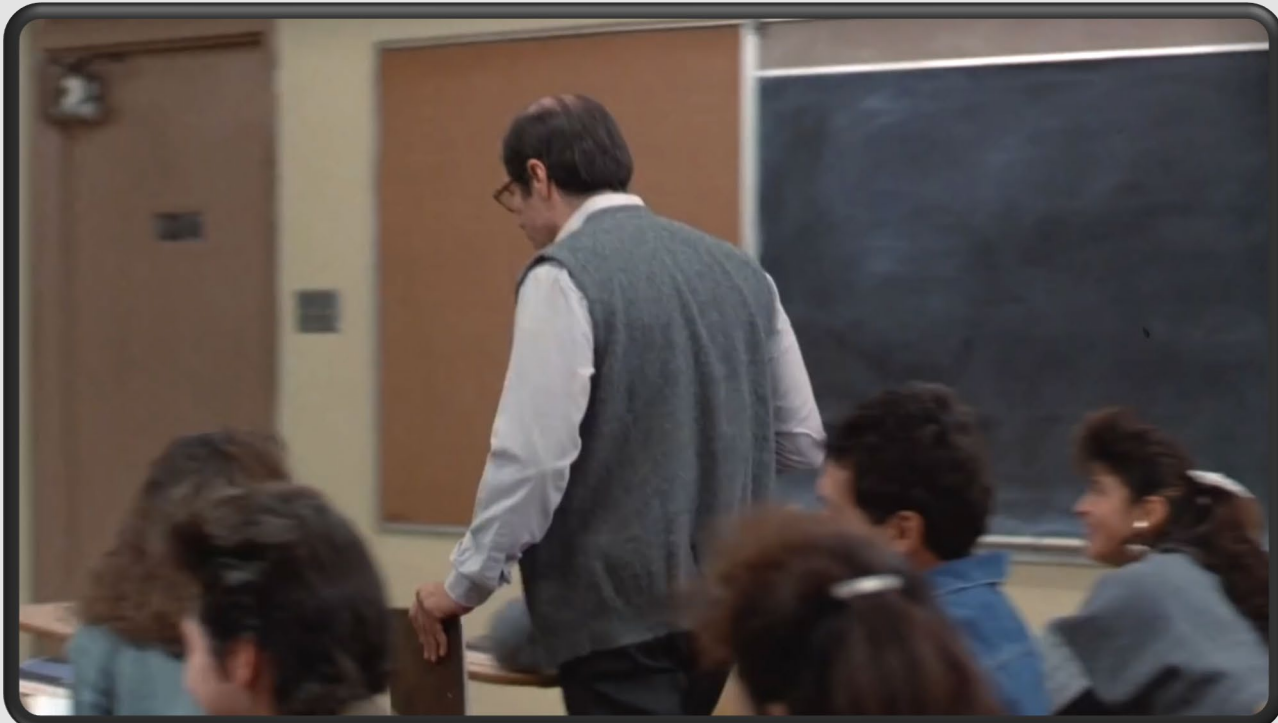


# Student Health

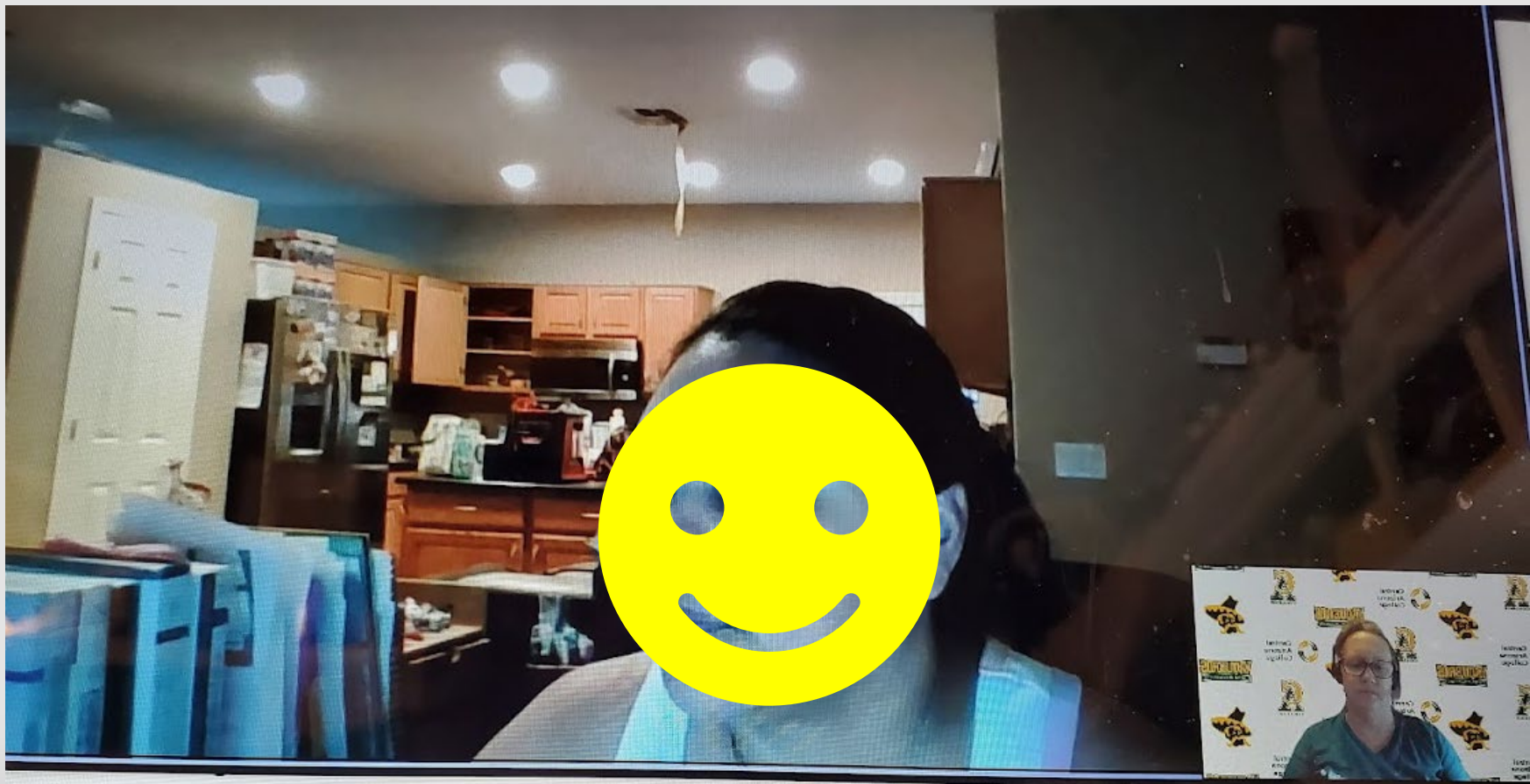


# Sandwich Generation













Caring Campus

education  
**FORWARD**  
arizona



 Healthy People 2030



Achieving  
the Dream™



**EDUCATION  
ADVANCES  
EVERYONE**

**TRIO**

**STUDENT SUPPORT SERVICES**







“The task of the modern educator is not to cut down jungles, but to irrigate deserts.”

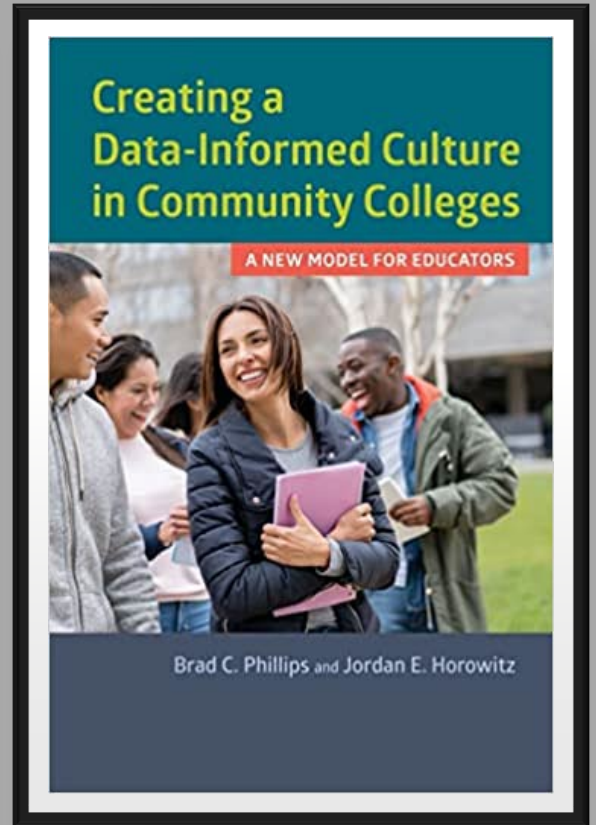
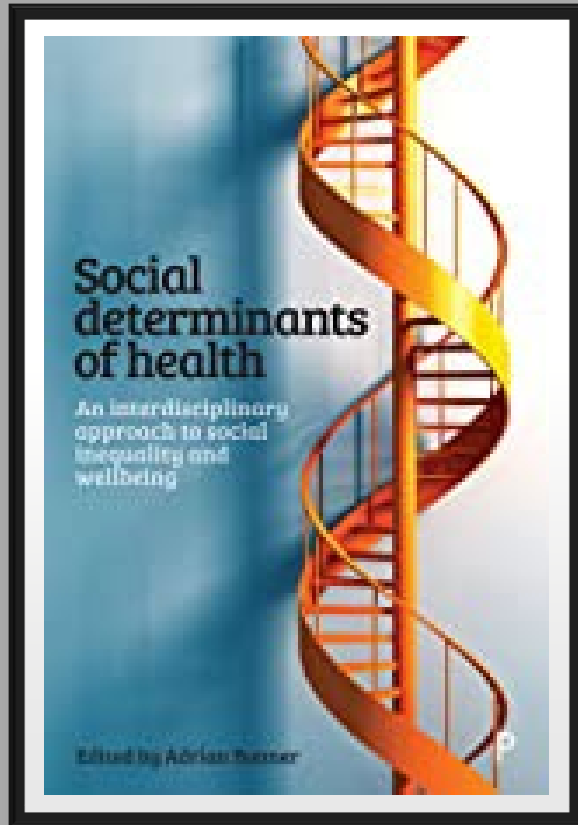
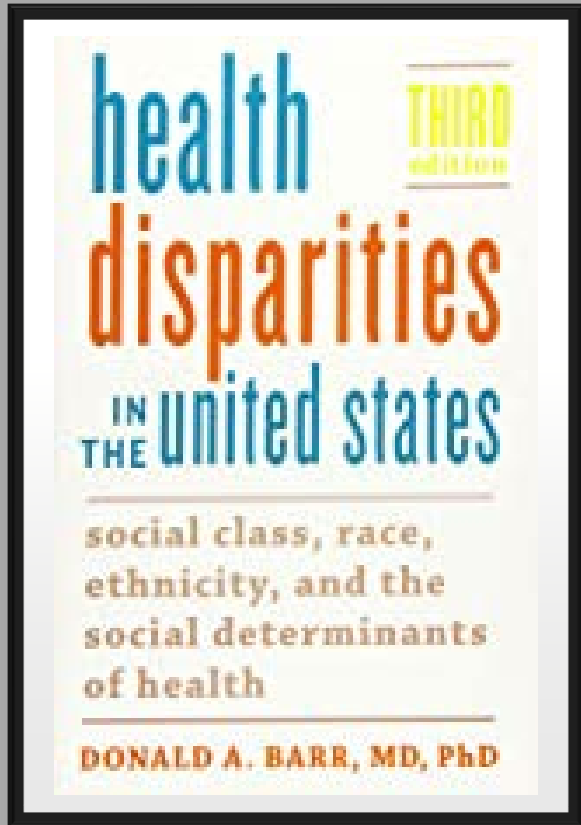
— C.S. Lewis



# Call to Action

How can we help?  
What do we do  
now?





# Contact

Dr. Sandra Brightwell, RHIA, FAHIMA

**Tel.: 480-677-7798**

**email: [sandra.brightwell@centralaz.edu](mailto:sandra.brightwell@centralaz.edu)**

**Central Arizona College**



*We Are Better Together.  
Thank You!*

