Know

- Students ' backgrounds
- Students' goals and ambitions

Understand

- Knowledge of students background controls their future
- Students struggles may limit their knowledge and ability to acquire knowledge

Relate

Establish a relationship between current knowledge and expected outcomes

Apply

Combine all of the above

From Root to Fruit

KURA connects an individual's current background to required future information or data

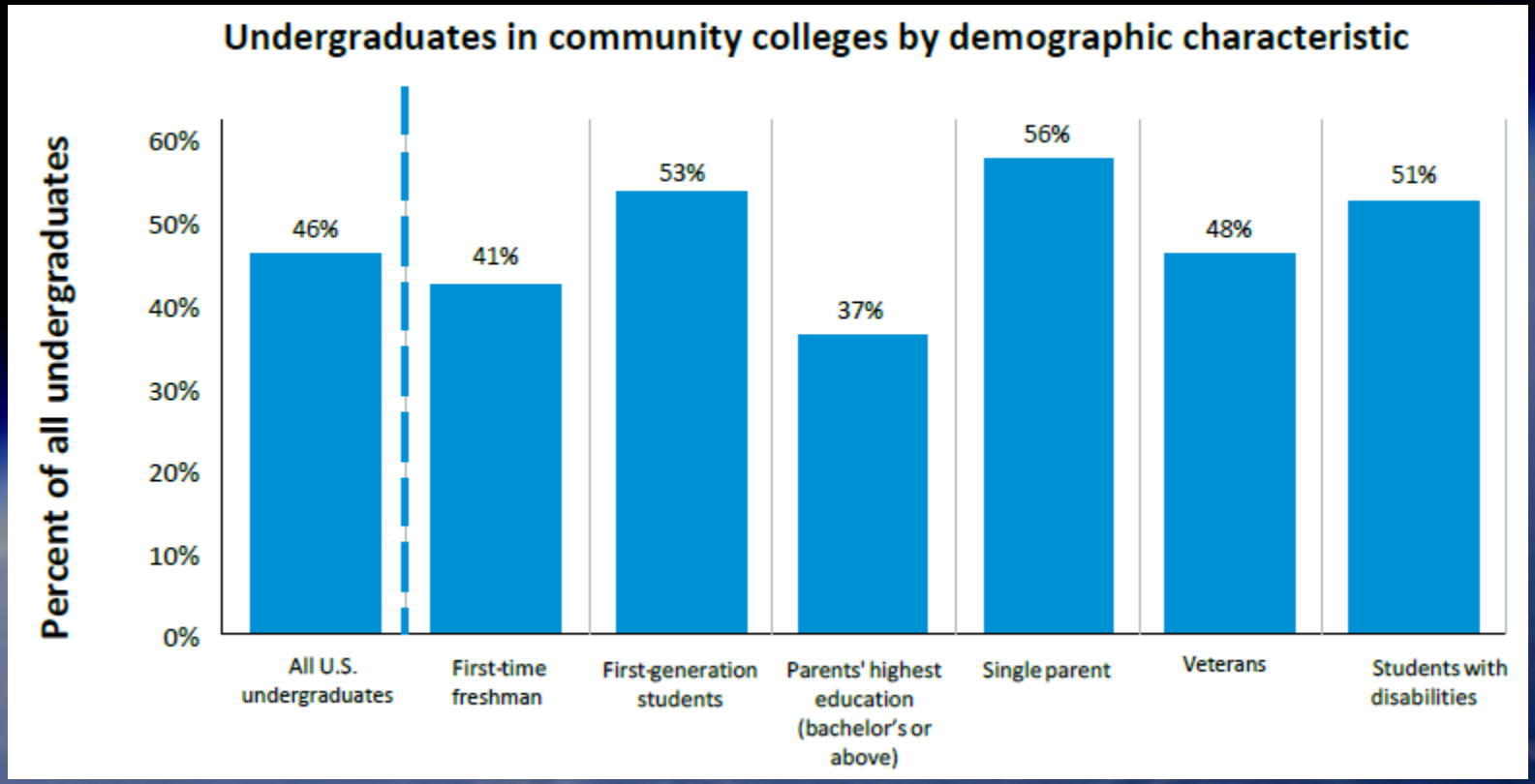
Root: (Prerequisites)
Foundation of information that can be relied upon to

Tree:
Conduit for transferring data and information

Fruit: (Goals or Objectives)
New information an individual is expected to know, understand, relate or apply.

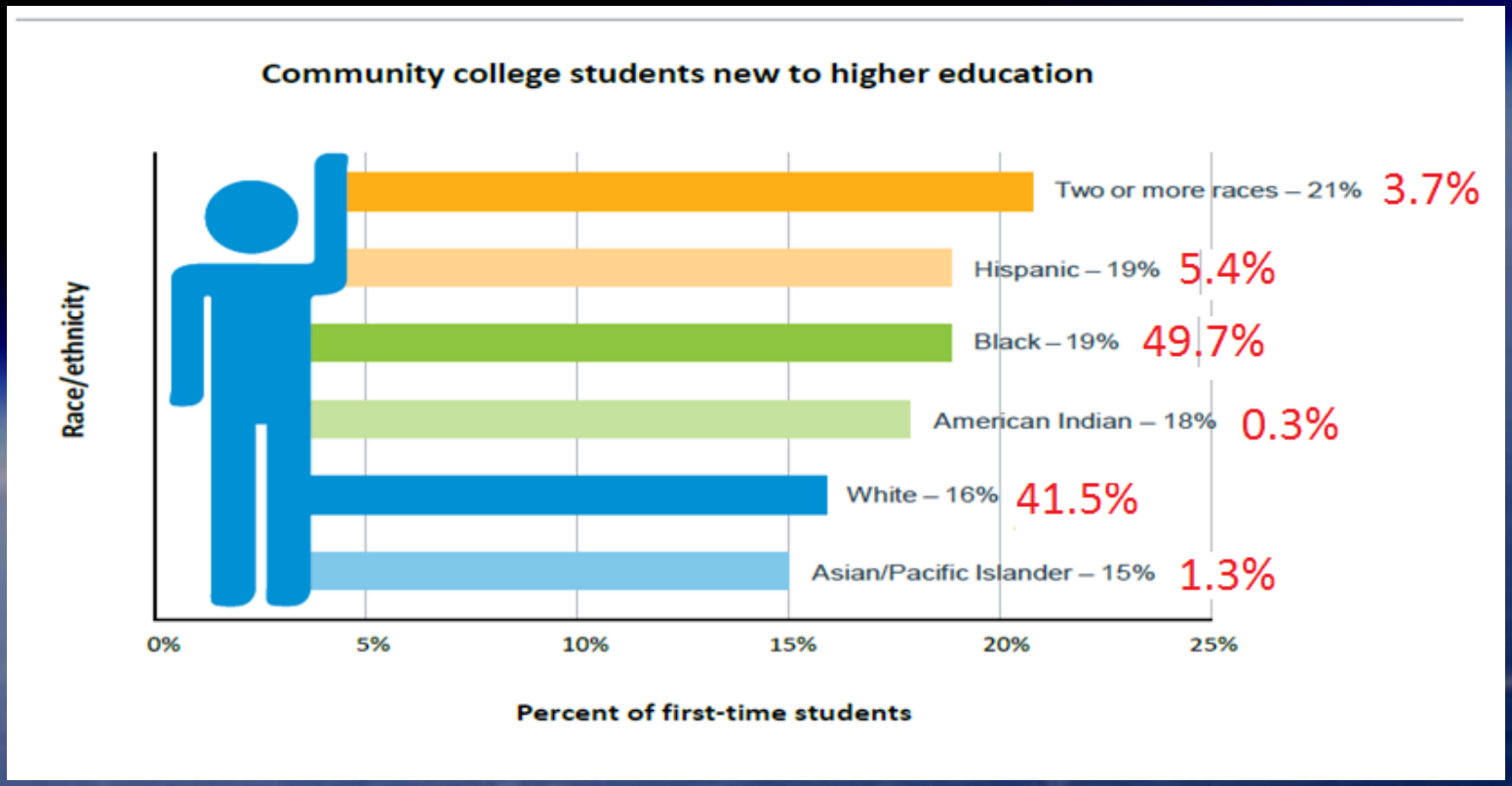
Creating Mustangs

Who Attends Community College



This information represents students' roots.

Changing Face of Students
Ghetto on the Hill



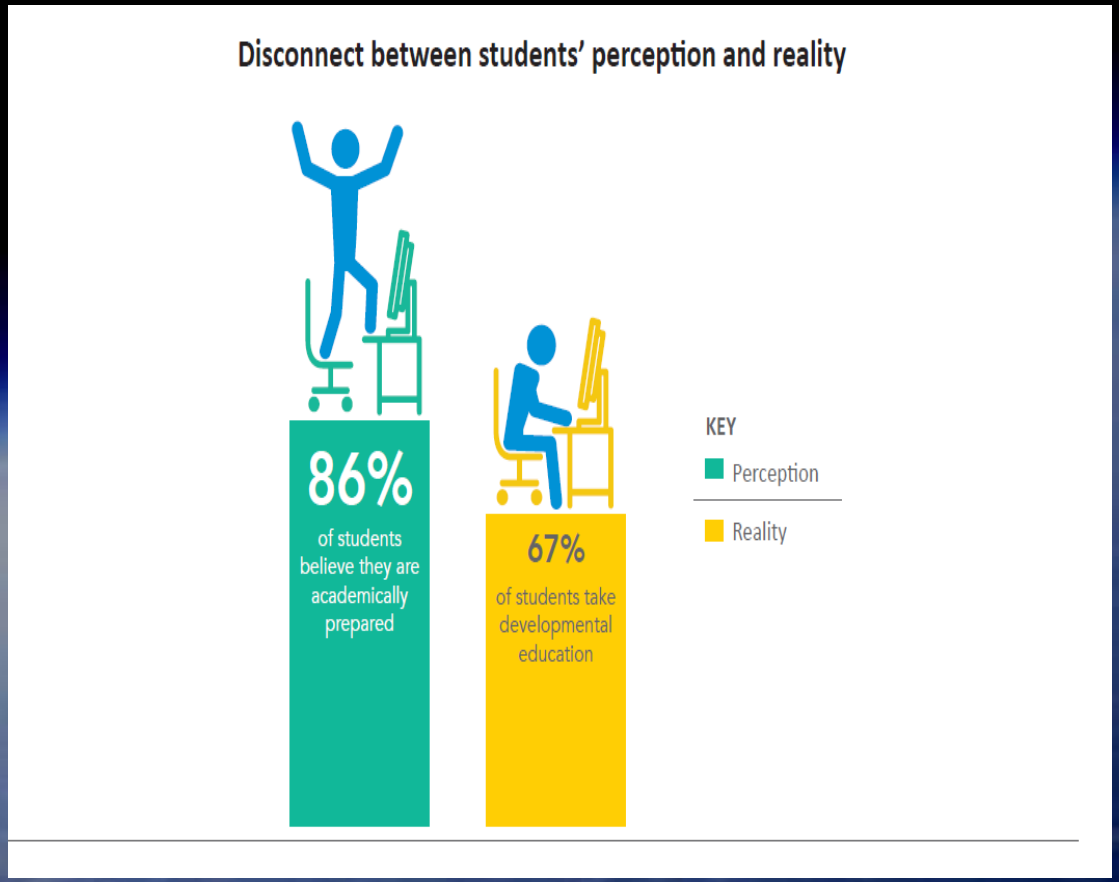
Pulaski Technical College is represented in red
Institution has been referred to as “Ghetto on the Hill?!”

Ready or Not

Students are not academically ready for college

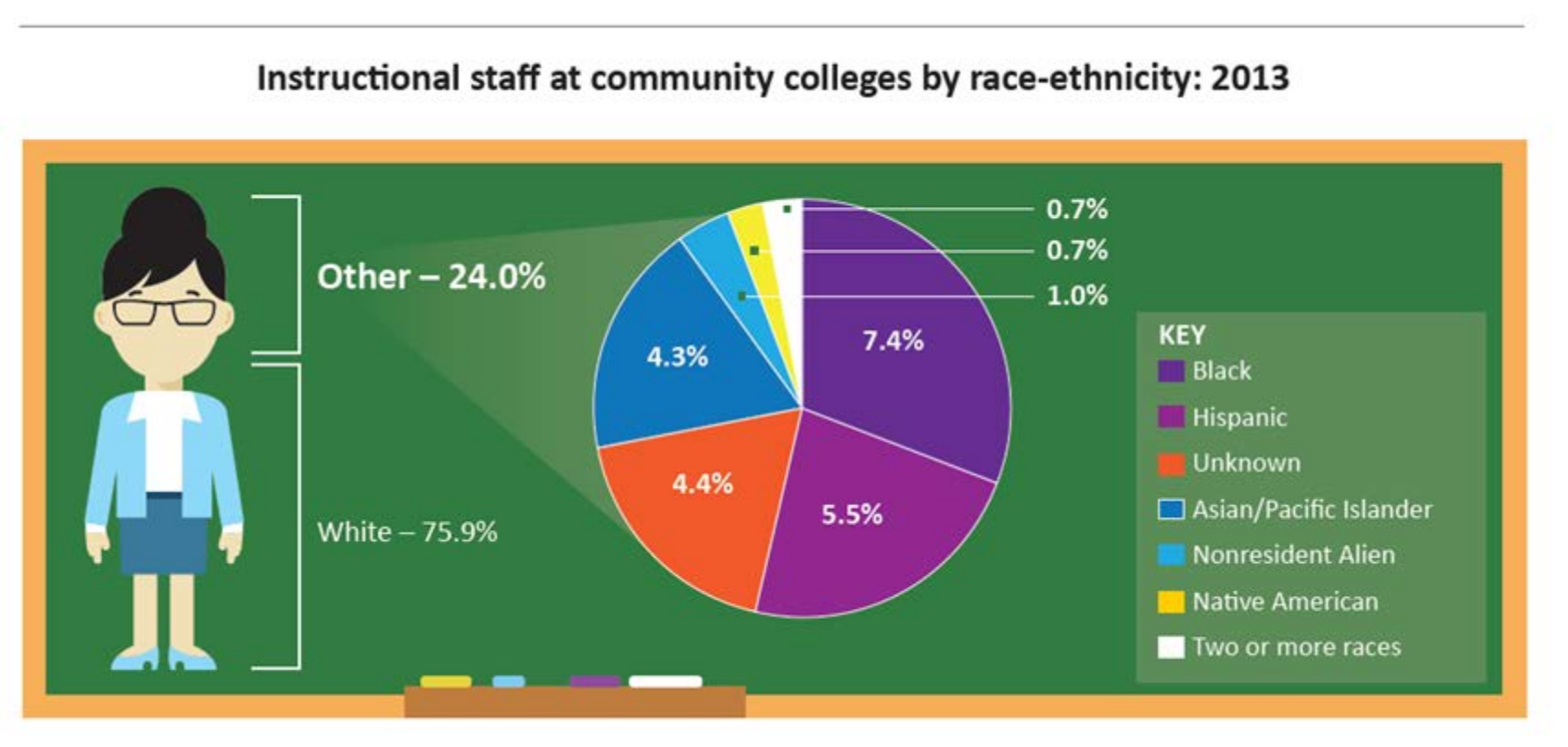
Remedial courses slow Student degree Progression

STEM students may delay graduation by 2 years



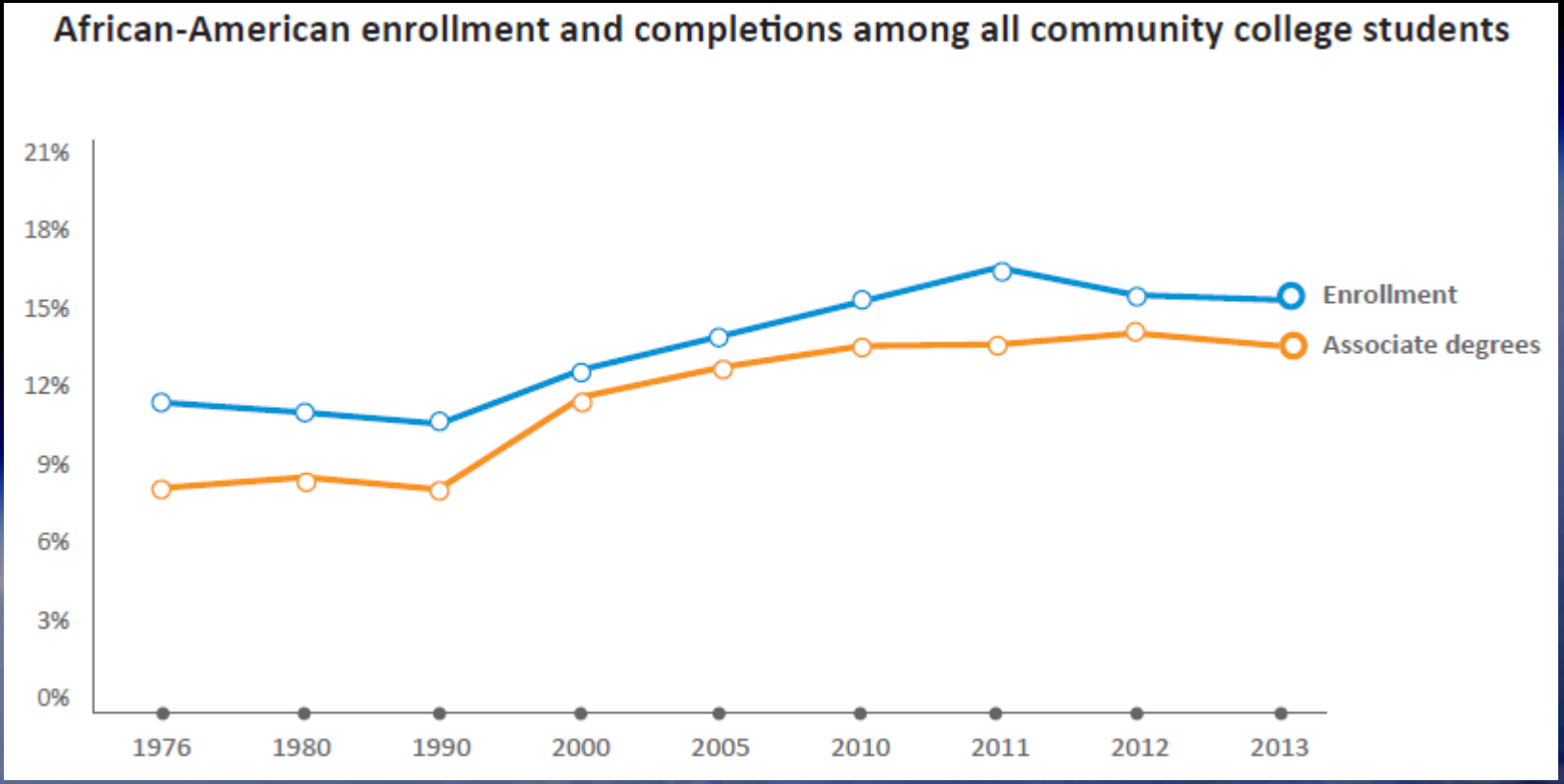
Faculty

Diversity in Instructional Staff



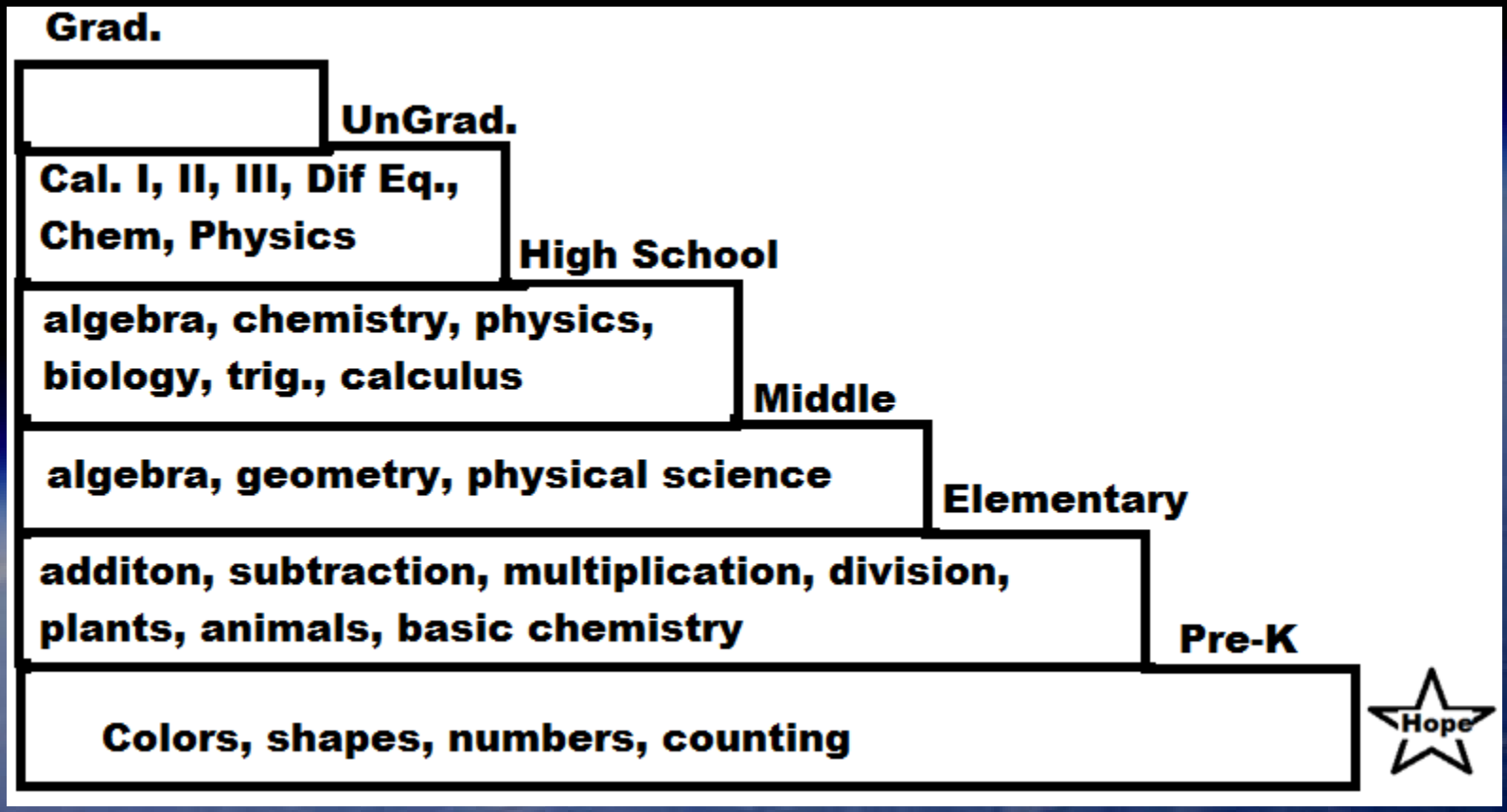
16 % of students entering CC were white
Disproportional percent of minority faculty to students
Faculty does not reflect student demographics

Trending Up



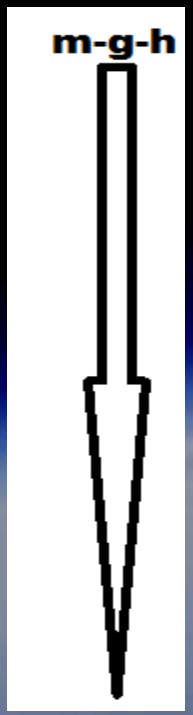
Number of African Am. From 430,000 (1976) 11.2% to 734,000 12.5 % in (2000)
Diversity needs to increase for African Americans and other students

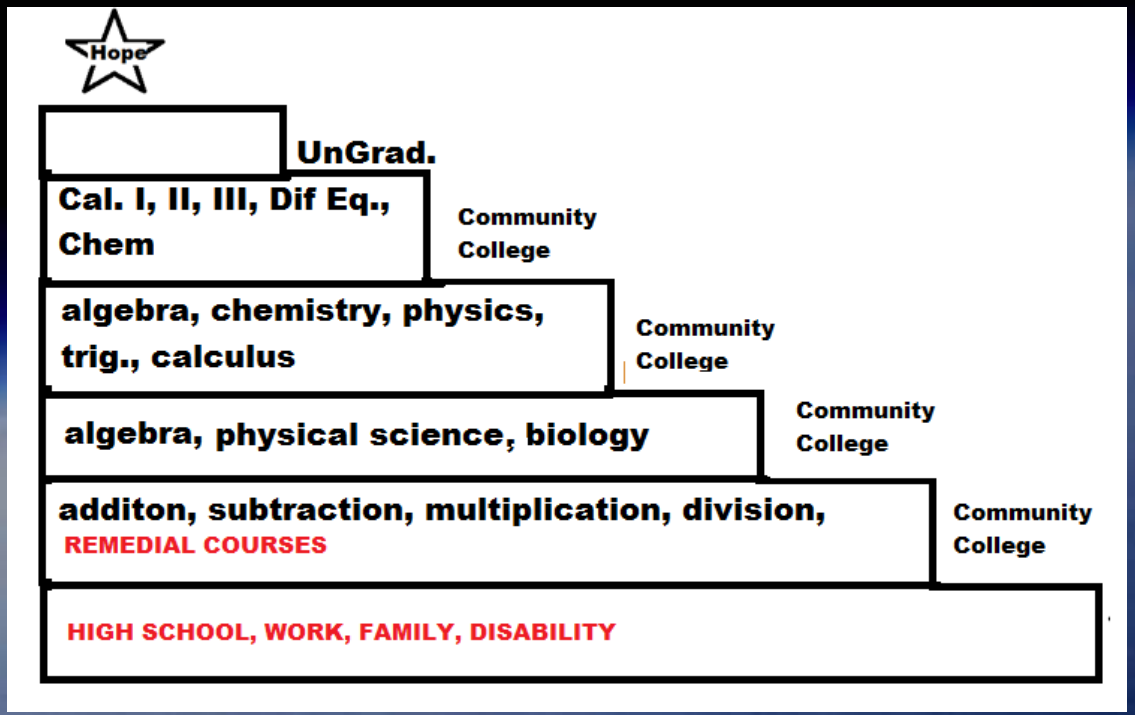
Climbing the Academic Ladder



The traditional students accomplish all of the academics above

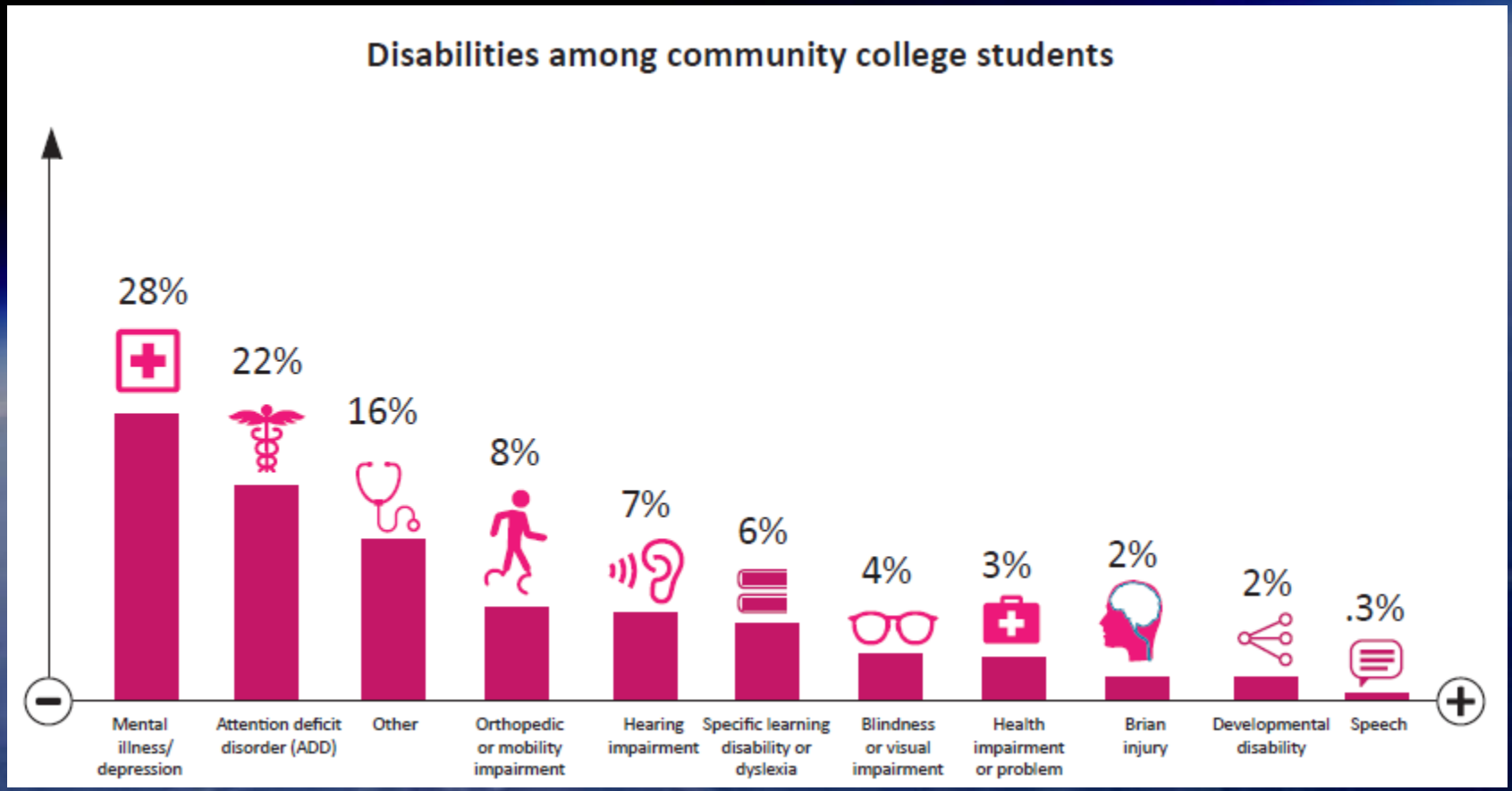
Keeping Hope Alive





- Community College faculty must keep students hopeful with the above reality
- Faculty give hope through potential m*g*h
- Elevating Hope= h; neglecting the mass=m that hinders success; providing a constant positive force=g

Diverse Disabilities



Challenges of Faculty

Retention-

Retain students with diverse roots

Single parent, Employment, disabilities, financial struggles etc

Remediation-

Assist students through developmental courses

Many community college students struggle with math a primary STEM requirement

Compensation-

No Additional Compensation

NO monetary compensation as four year institutions

No tenure

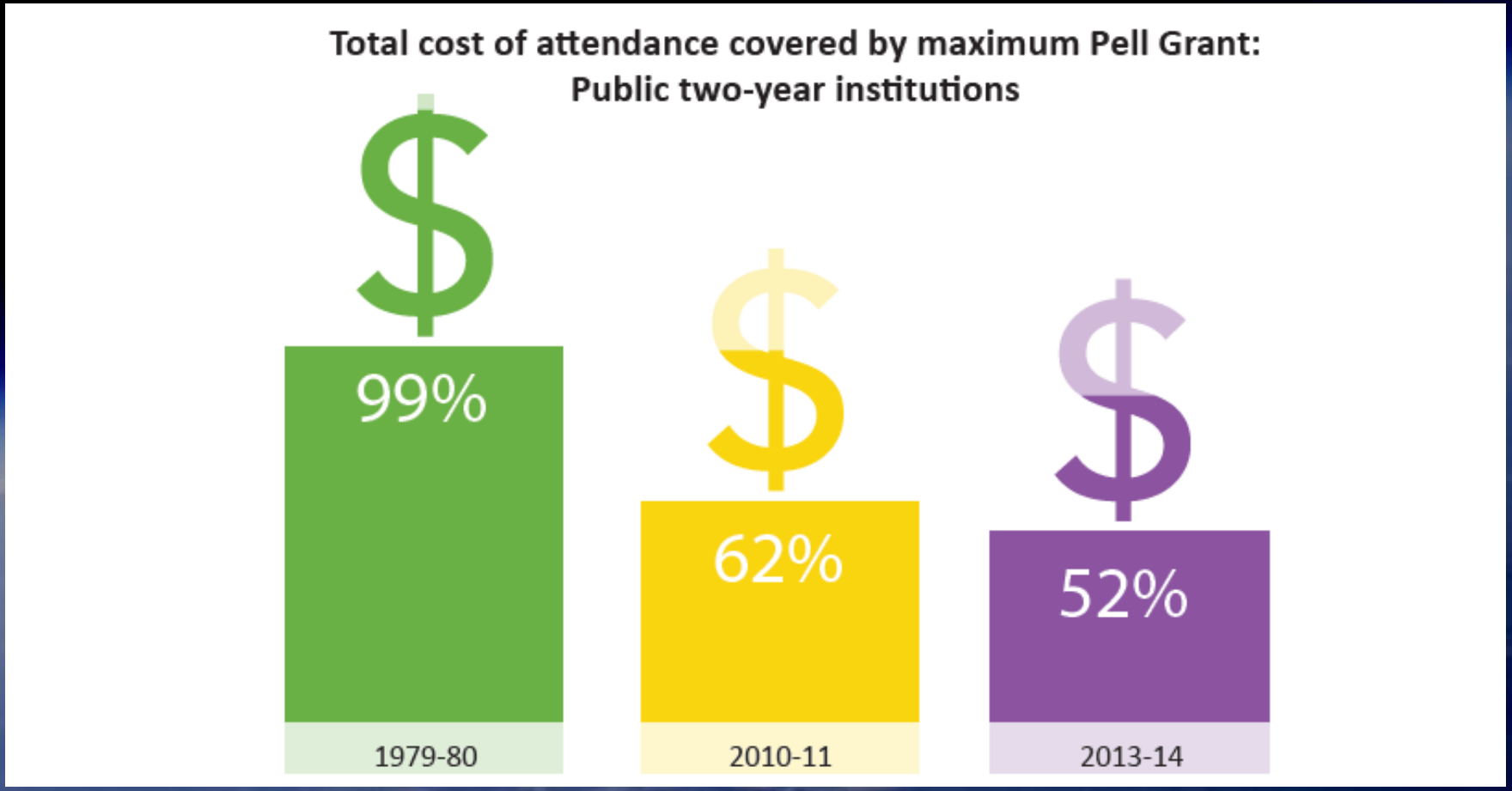
Dedication and Passion is the only reward

Demoralization

Administration

Leading the Pack through Changing Times

The Value of Pell



Administration

Budget

Must focus on growing number of students receiving student loans

Retention

Student loan default rates and retention are growing problems

Advising

Advisors are limited in STEM degree requirements

Grants

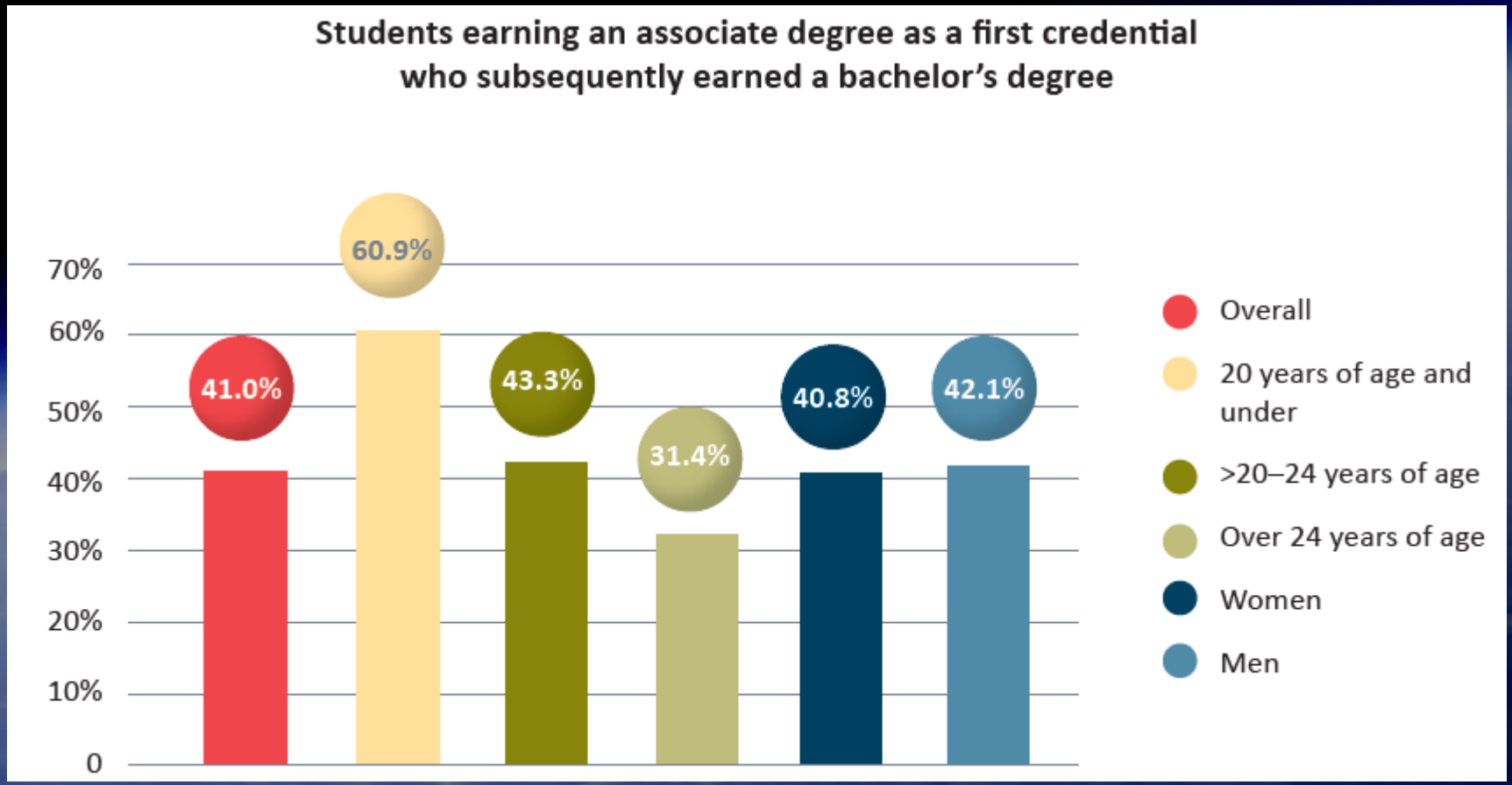
Grants offices are limited in ability to apply for NASA STEM grants

Institutional Research-No Research programs

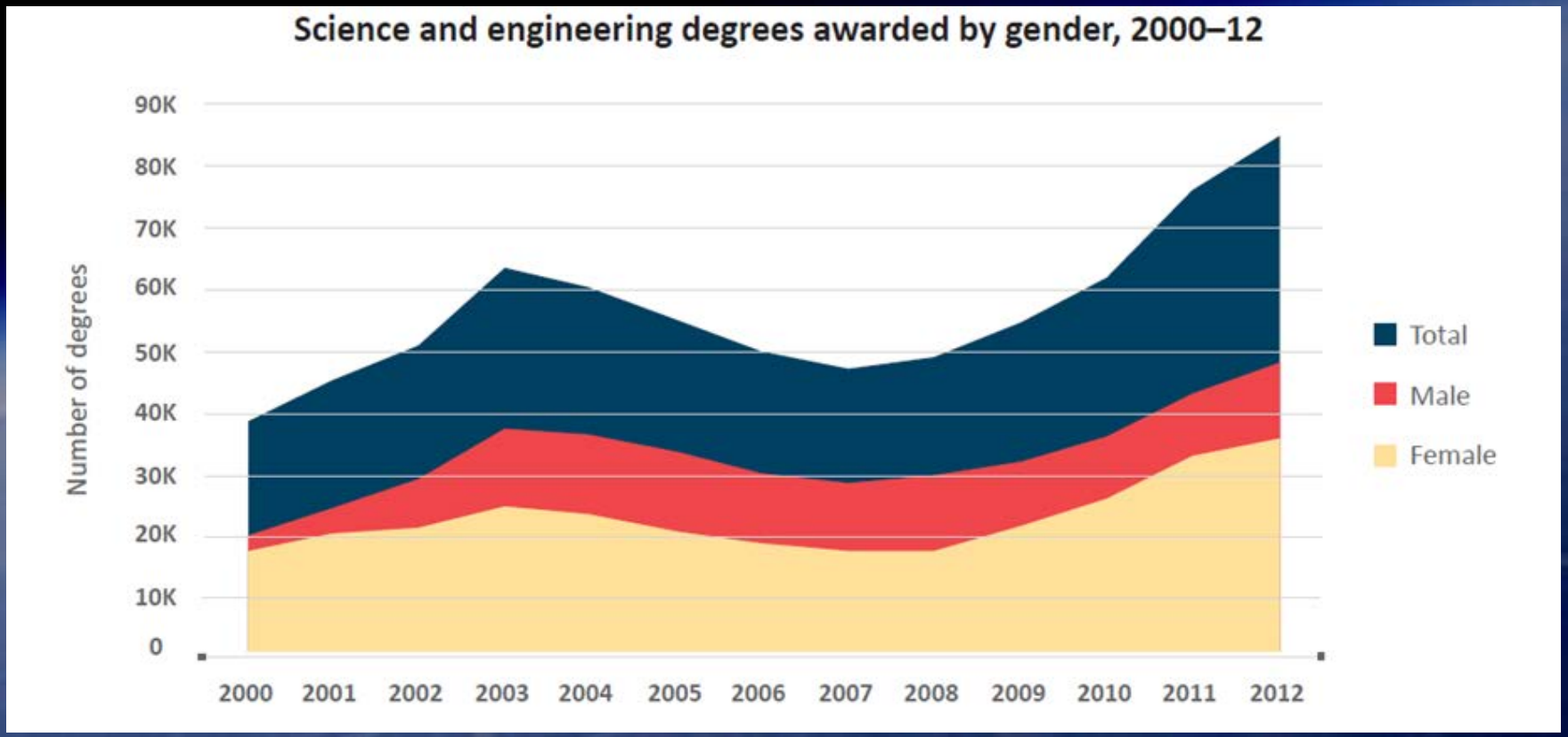
Bridging the Gap

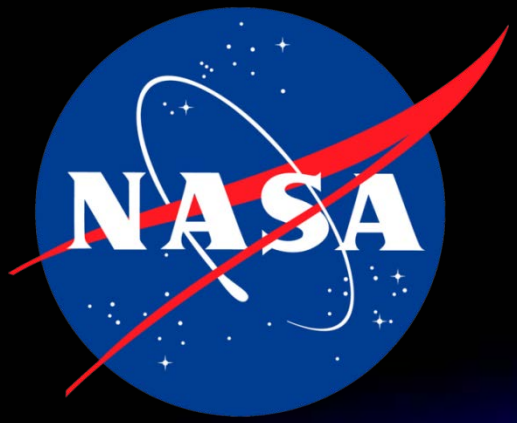
PTC is bridging the STEM gap to four year institutions

Completion Pathways



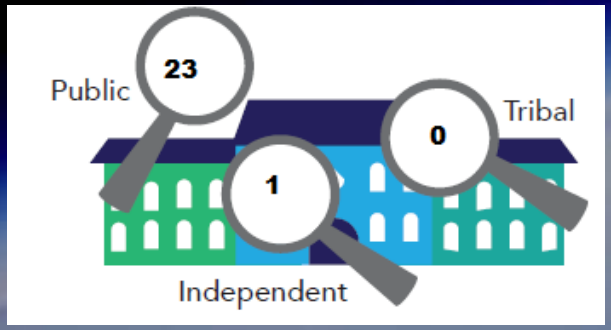
STEM Success





PTC is the only CC in Arkansas
Actively involved in Space Grant activities

Community College Liaison



22 Other Institutions
Grants
Curriculum
Student Engagement
Faculty Engagement

Research Proposal Opportunities
STEM Pipeline Curriculum Development

PTC STEM Mustangs

Spring 2016 -1st group of PTC students attended Space Grant Meeting

Balloon Sat

Thanks to:
Dr. Tillman at Arkansas State University (ASU) for the Balloon Sat photograph
(Arkansas and Mississippi River are shown in this picture)
NASA
Dr. Keith Hudson –Arkansas Space Grant Consortium/NASA EPSCoR

Sources

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Creating A Winning TEAM at Pulaski Technical College

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