

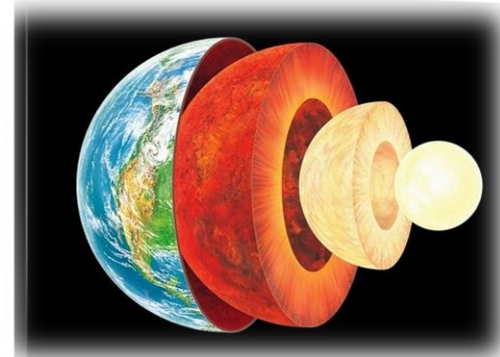
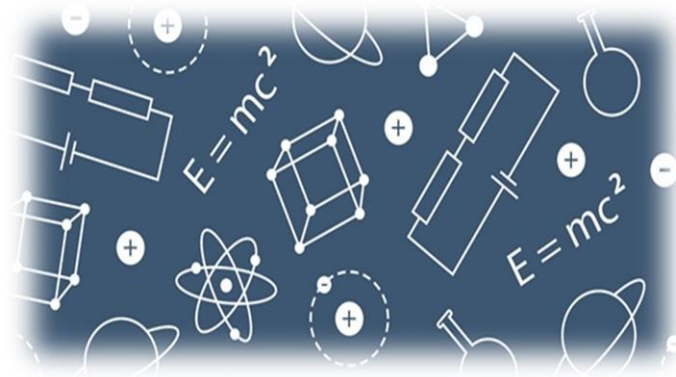
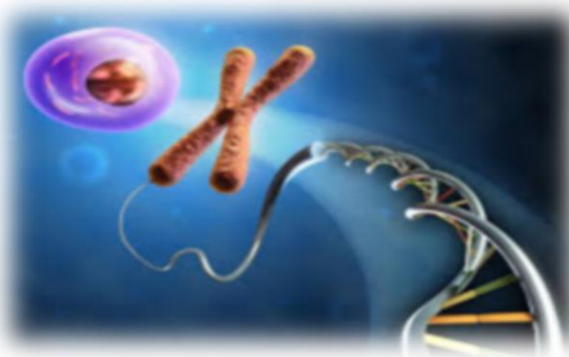


SCIENCE AND ENGINEERING

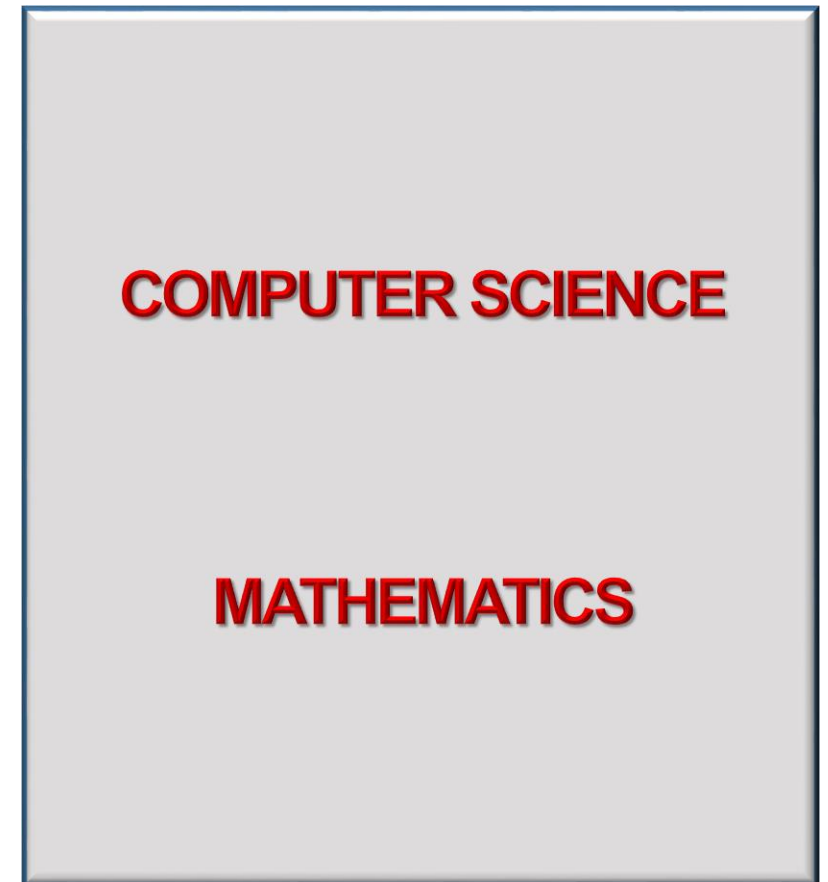
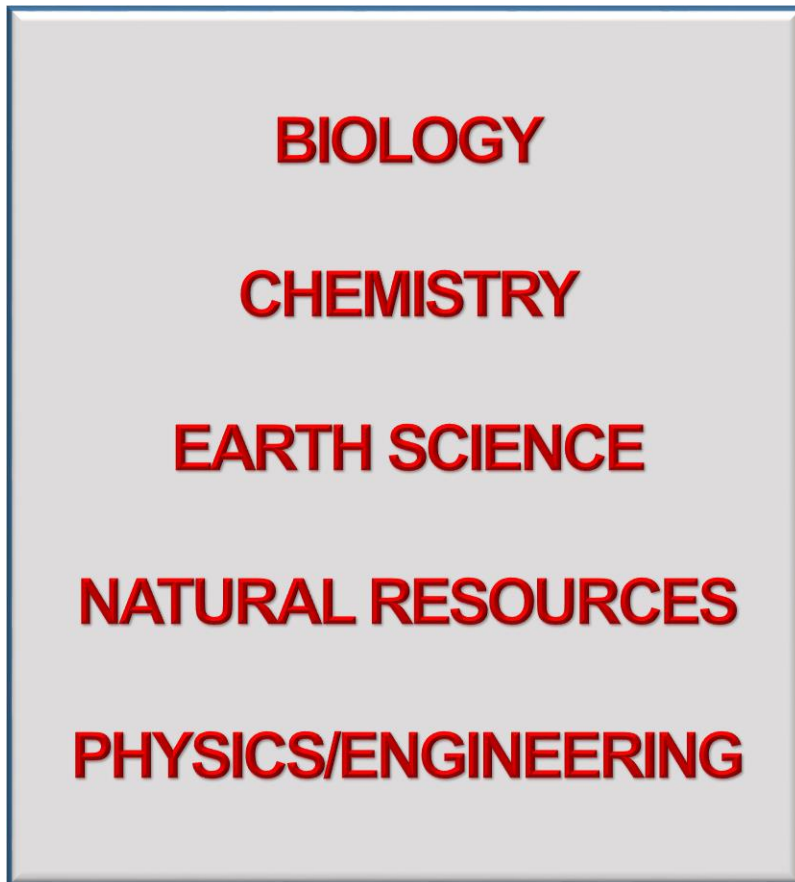
Economic projections point to a need for approximately 1 million more STEM professionals than the U.S. will produce at the current rate over the next decade...

-President's Council of Advisors on Science and Technology, 2013

AMERICAN RIVER COLLEGE



STEM Disciplines



STEM Pathways

ENROLLMENT

DEGREES CONFERRED

TRANSFER TO CSUS AND UC DAVIS

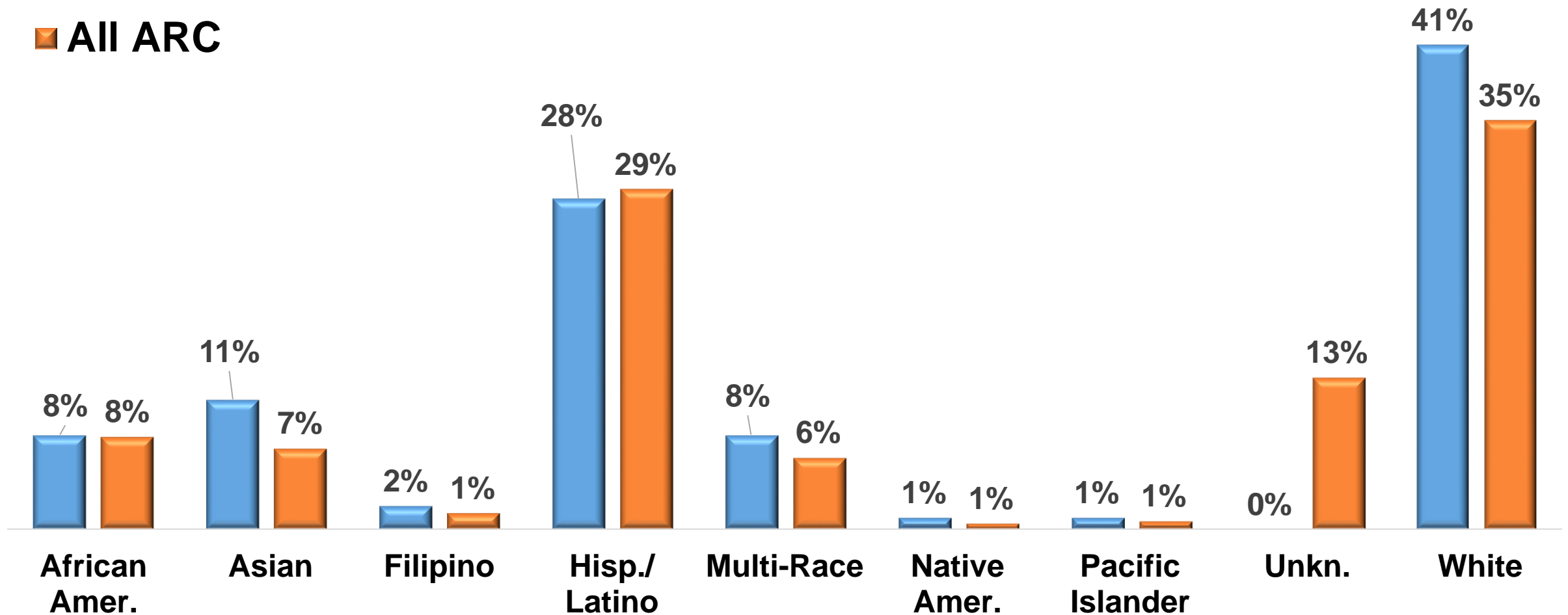
SUPPORT PROGRAMS

STEM Enrollment

1st Time, New Students, Fall 2016

■ ARC-STEM

■ All ARC

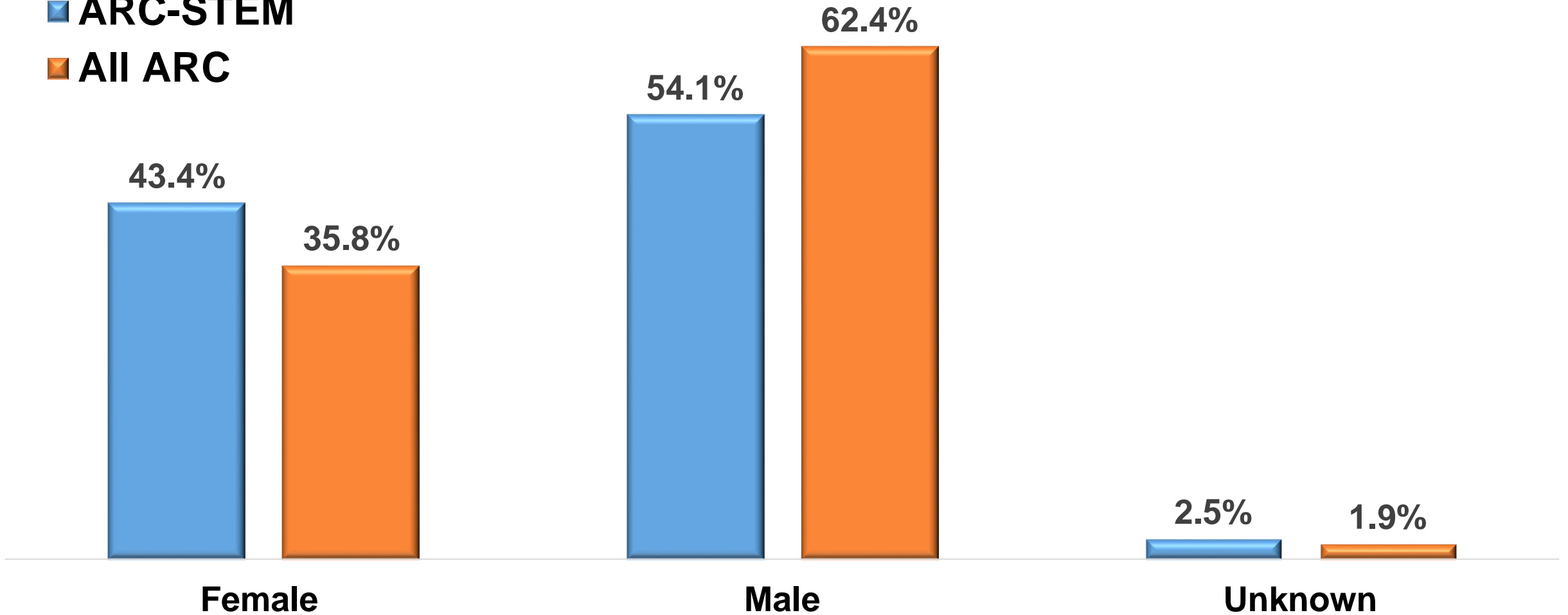


STEM Enrollment

1st Time, New Students, Fall 2016

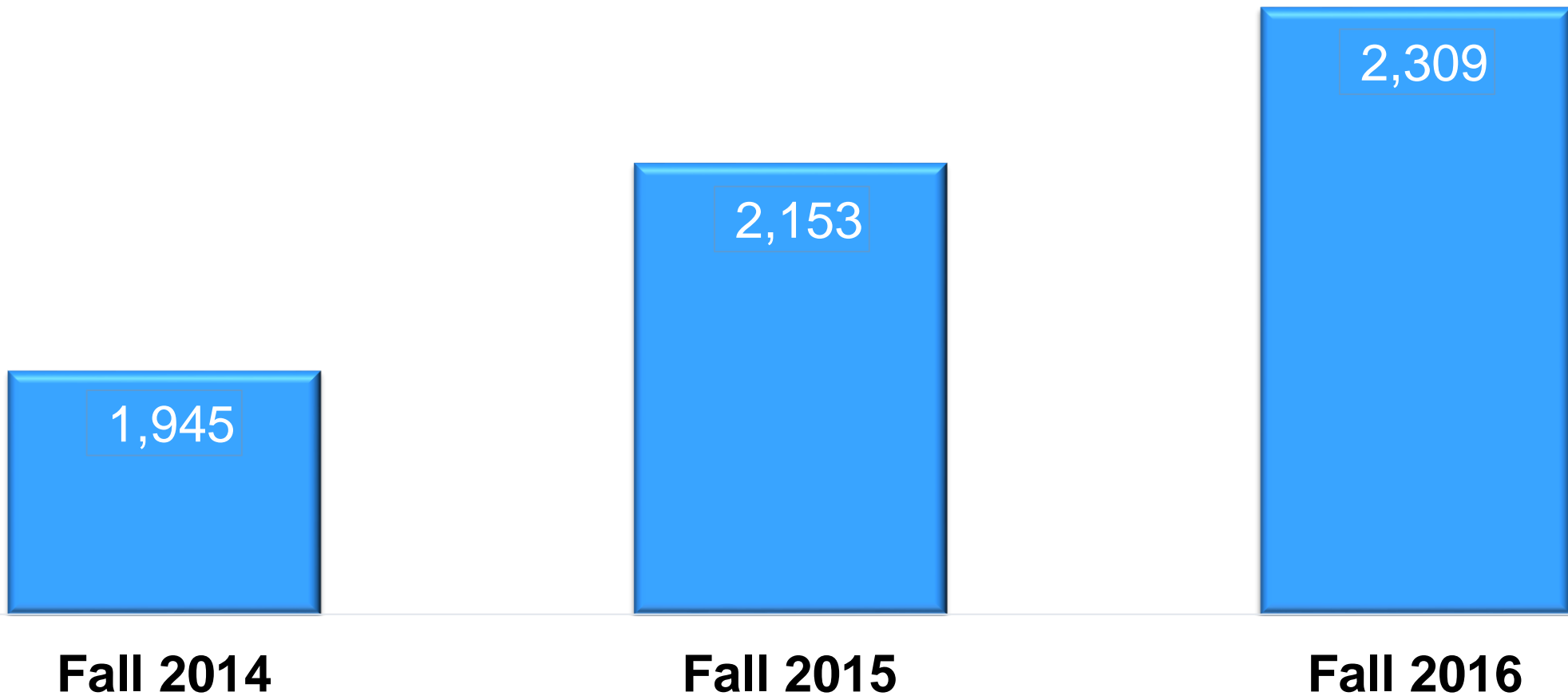
■ ARC-STEM

■ All ARC



STEM Enrollment Trend

All 1st Time, New STEM Students, Fall 2014-16



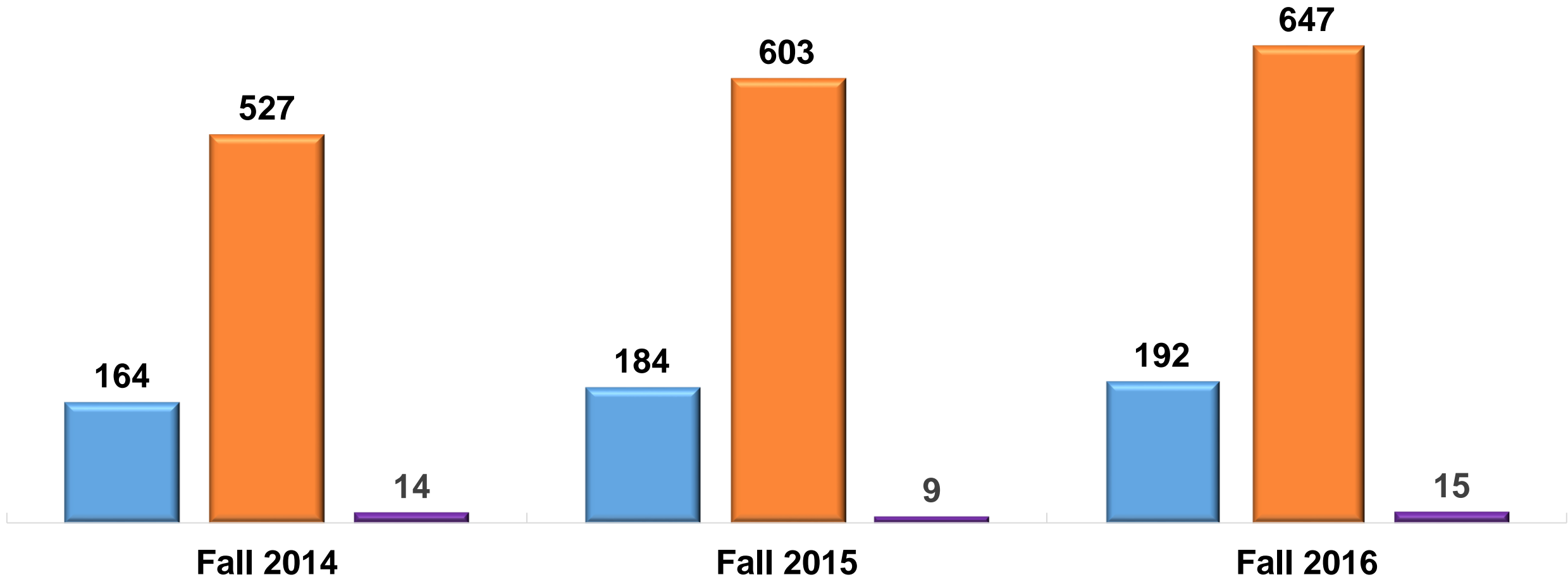
STEM Enrollment Trend

All 1st Time, New STEM Students by Disproportionately Impacted Groups

■ African American

■ Hispanic/ Latino

■ Native American



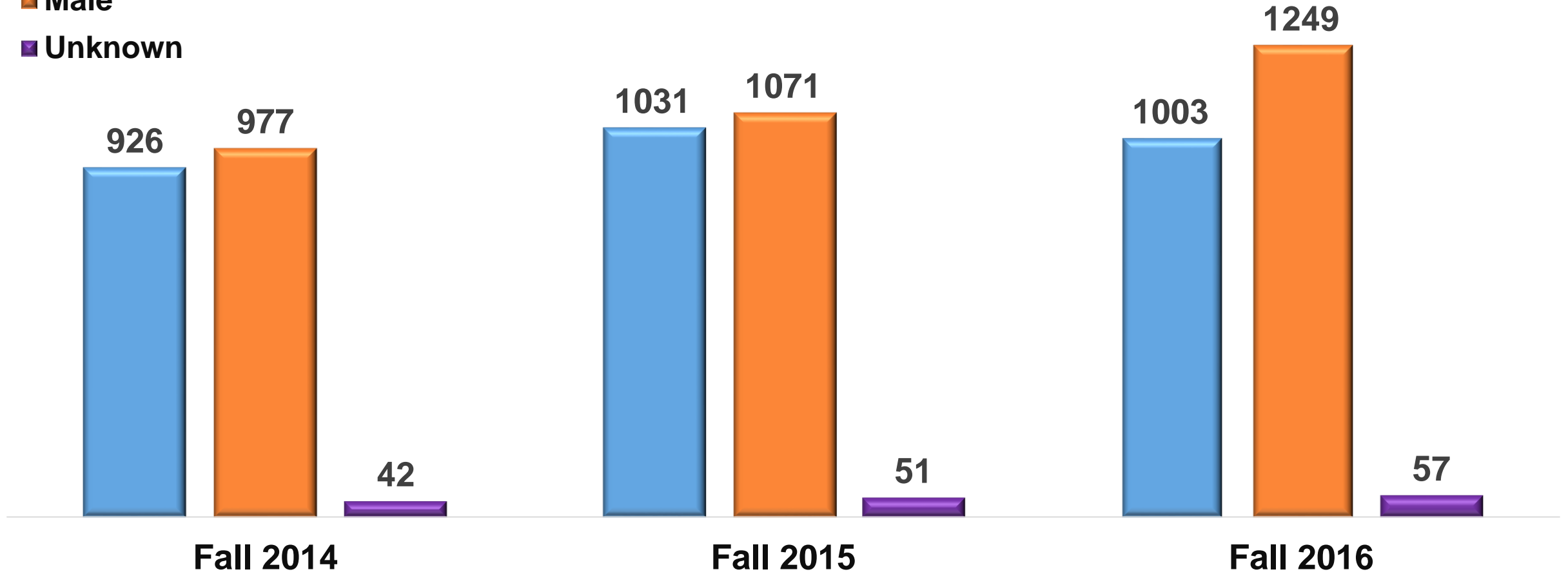
STEM Enrollment Trend

All 1st Time, New STEM Students by Gender

■ Female

■ Male

■ Unknown



STEM Degrees Conferred

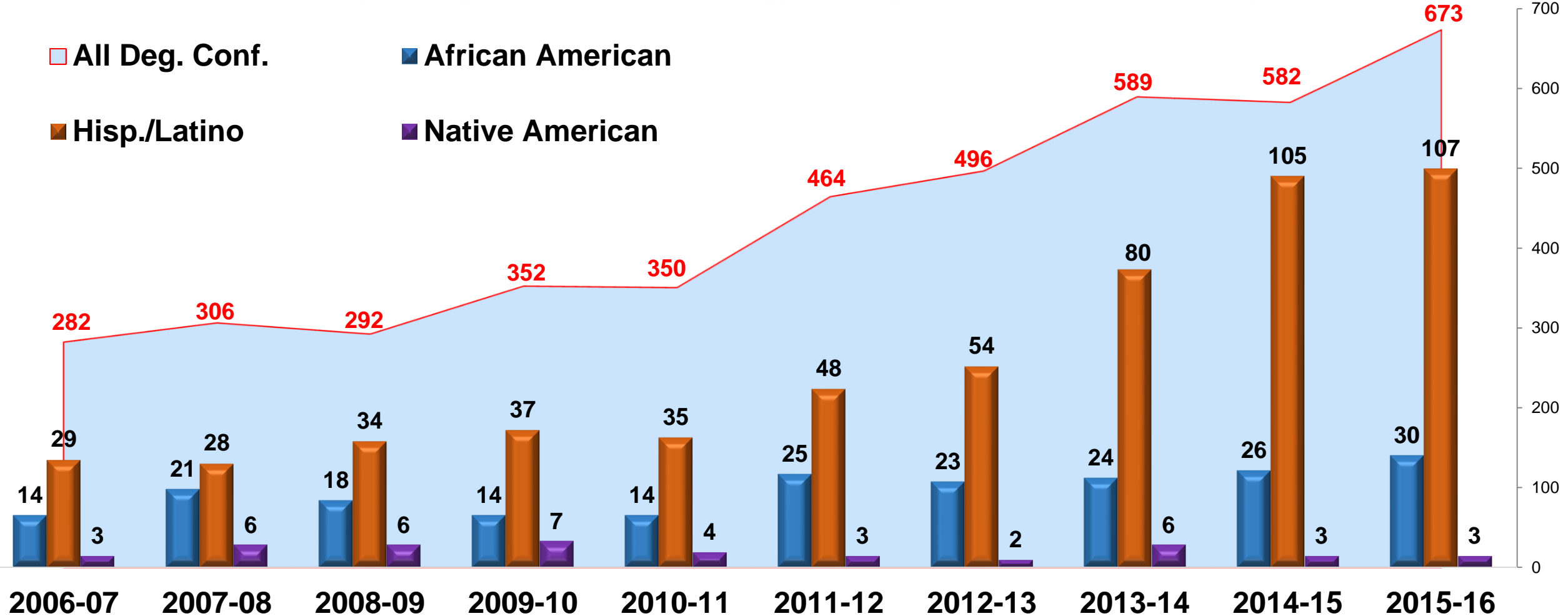
Disproportionately Impacted Groups

□ All Deg. Conf.

■ African American

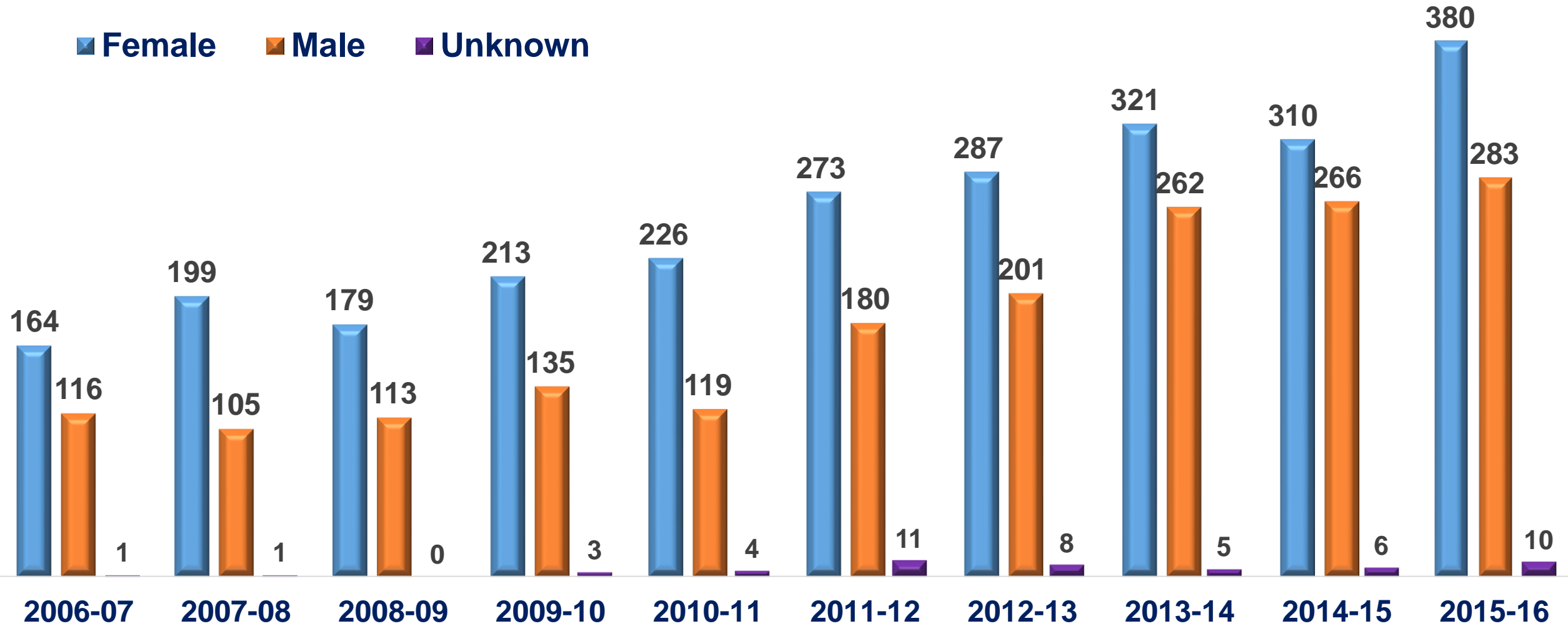
■ Hisp./Latino

■ Native American



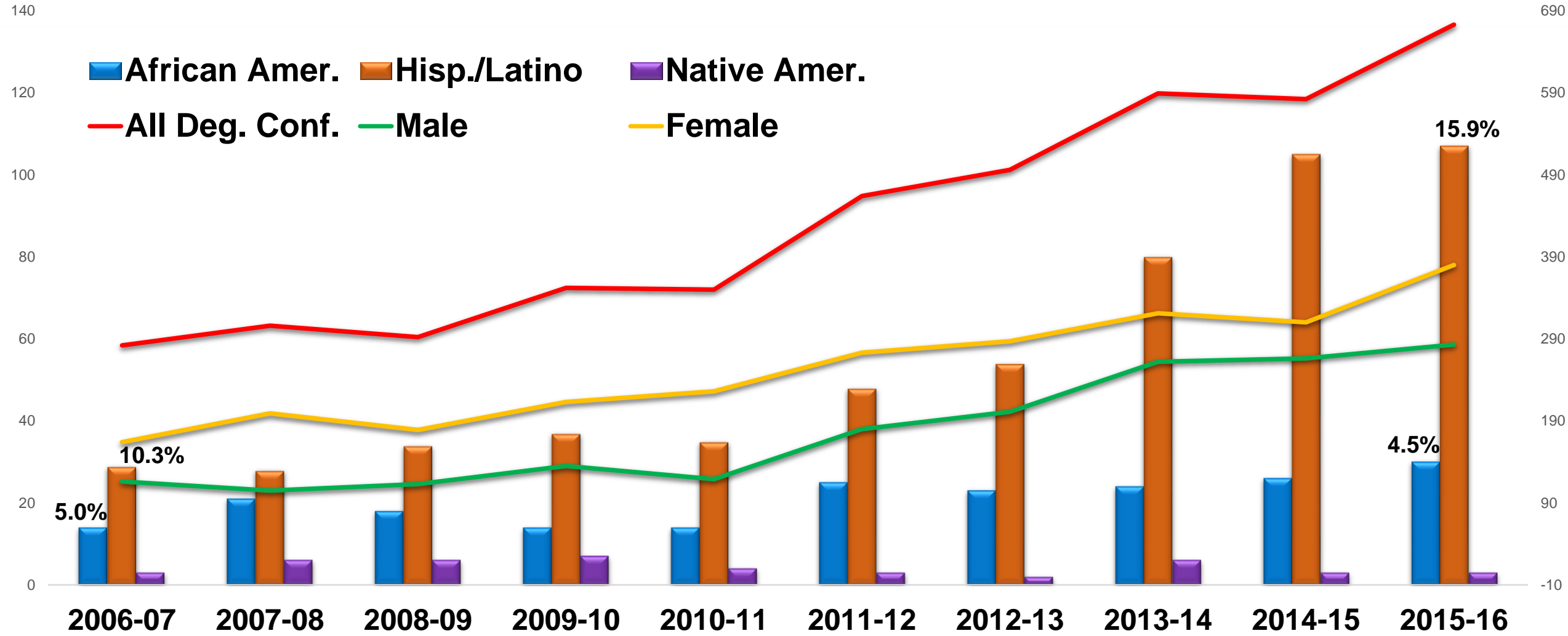
STEM Degrees Conferred

Female Male Unknown



STEM Degrees Conferred

Percent of All STEM Degrees



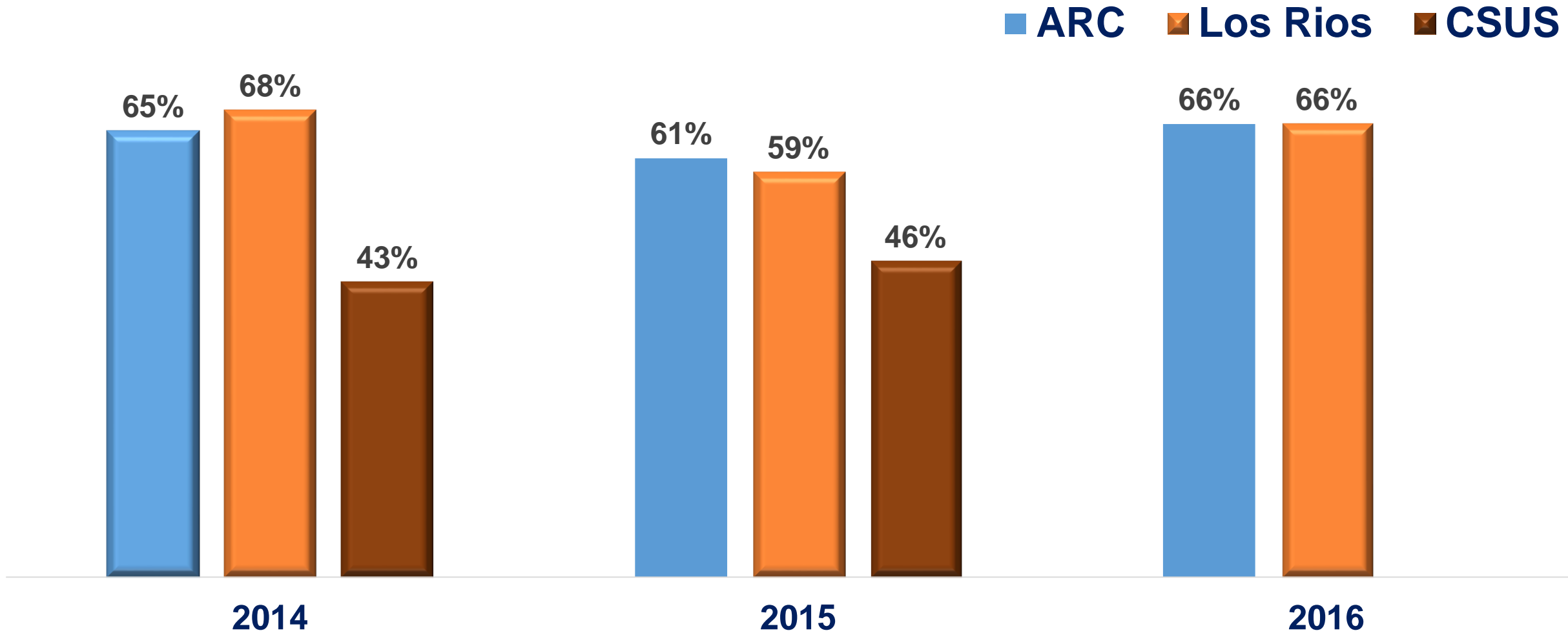
STEM Students -Transfer Trend CSUS

Junior Year Persistence

| | 2012 | 2013 | 2014 |
|----------------------------------|------|------|------|
| ARC Transfer (1-Yr at CSUS) | 95% | 90% | 90% |
| Los Rios Transfer (1-Yr at CSUS) | 91% | 90% | 90% |
| | | | |
| CSUS Native Students | 96% | -- | -- |

STEM Students -Transfer Trend CSUS

Graduation - Los Rios Transfer Students (4 yrs at CSUS) vs CSUS Native Students (6 yrs at CSUS)



Transfers to UCD – 4 Year Trend

90% of ARC students earn a STEM degree from UC Davis within 4 years of transferring.

The average GPA is above 3.0 and increasing

A consistent shortening of the average time-to-graduation at UCD

"The College of Biological Sciences is pleased to accept transfer students from American River College. The average first quarter GPA for ARC transfers in 2015 was 3.34, so we find the students to be well qualified for our programs. Our 2016 Excellence in STEM award for transfer students was given to former ARC student Jennifer Diamond based on her excellent academic record on campus."

- Susan L. Keen, Ph.D. Assoc. Dean for Undergrad. Acad. Programs College of Biol. Sciences UC, Davis

Support Programs

Student Success Center (SSC)

- Serves 300+ student per semester
- Provides individualized instruction in reading and study strategies.
- Habits of Mind and Reading Apprenticeship are embedded in the SSC curriculum
- Short term goal: Success in their current science course
- Long term goal: Success in their academic life and in their career choice
- +20% higher success rate upon completion of SSC program

Testimonial: Jose Idrovo

Support Programs

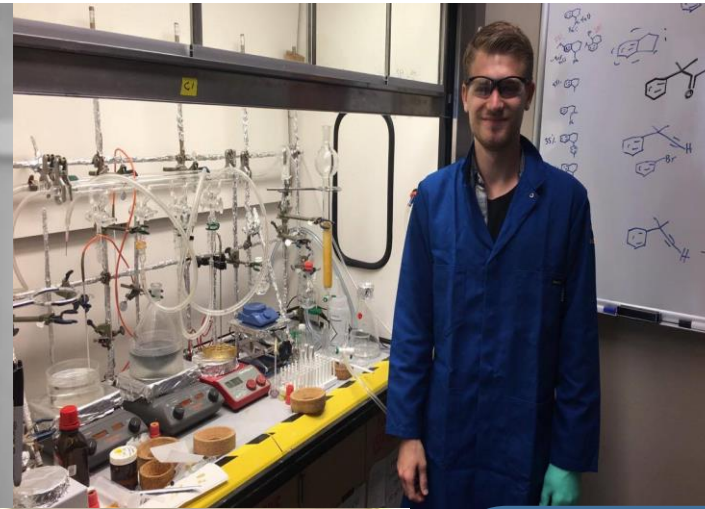
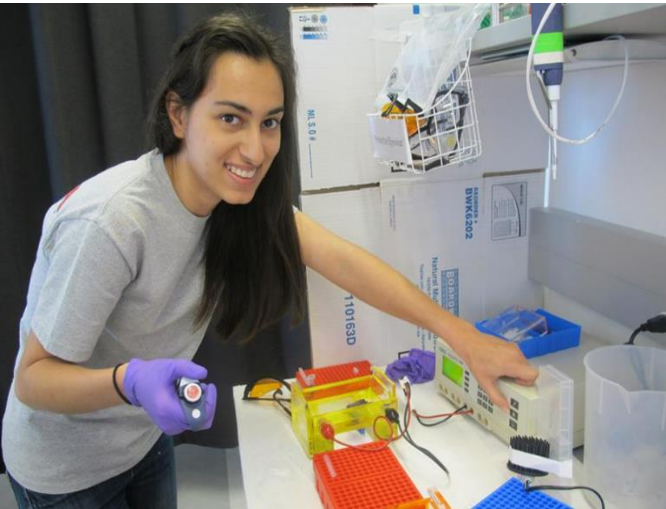
TRIO Student Support Services (SSS) STEM

- **Federally-funded to serve 120 students**
- **Participants: first-generation, low-income and/or a student with disabilities**
- **Currently serving 140 students (waitlist of 30+)**
- **TRIO SSS STEM is a home away from home**
 - We learn about his/her academic and personal challenges
 - Develop success plan for transferring
 - Prepare for future obstacles
 - Students obtain services specific to their academic level (number of units), major, and goals

Support Programs

MESA

- A learning community for students pursuing a career in the fields of Mathematics, Science and Engineering



Fariba Kianmajd

UCLA Grad
Applying to
Dental School

Qudsia Wahab

UC Berkeley
Grad
Civil and
Environmental
Engineering

MESA Students Huddle



Daniel

Studying
Chemical
Engineering at
UCD

Pablo Garcia

Lives in Lyon
France, PhD
in Geology

STEM Student Testimonial

